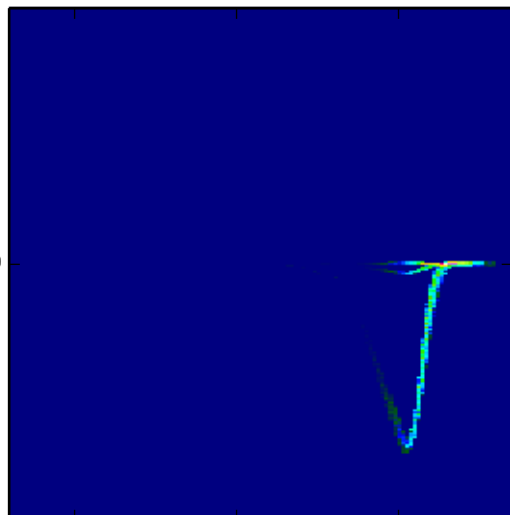
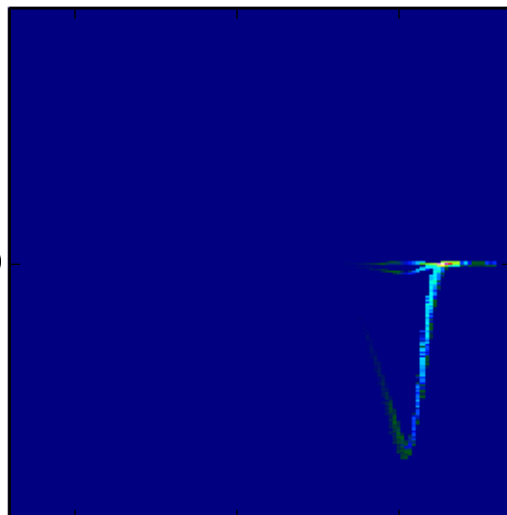


# Edge CH2 $\rightleftharpoons$ CH3

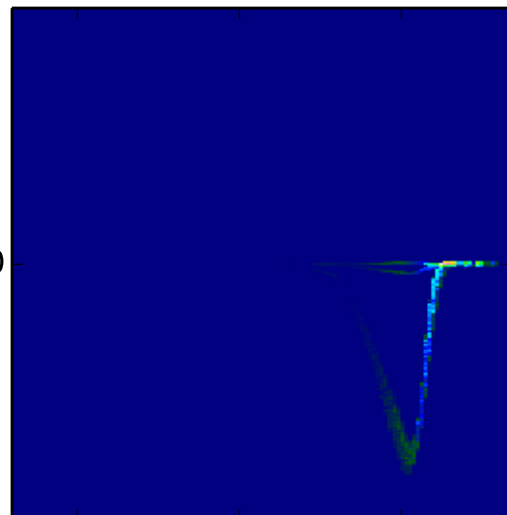
Curvature: -6000 : -5200



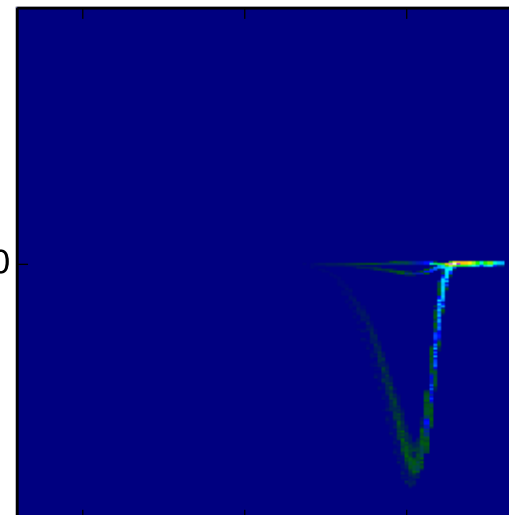
Curvature: -5200 : -4400



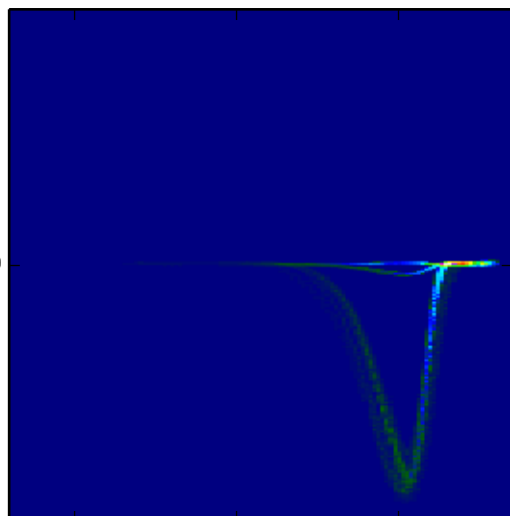
Curvature: -4400 : -3600



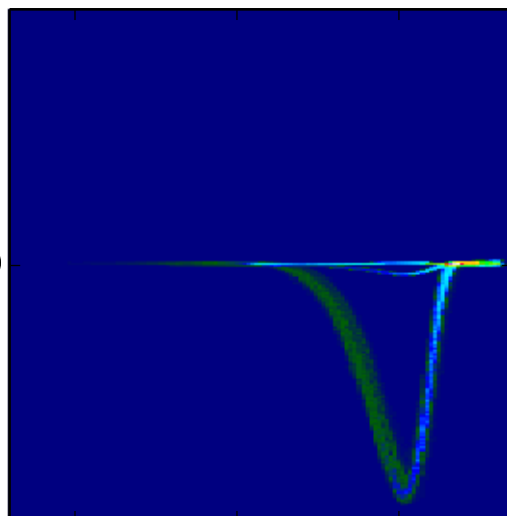
Curvature: -3600 : -2800



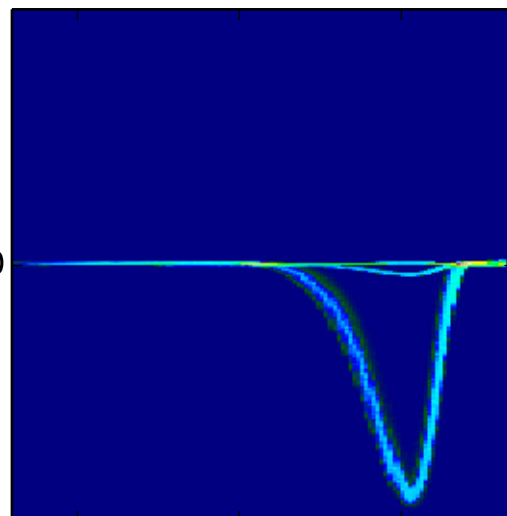
Curvature: -2800 : -2000



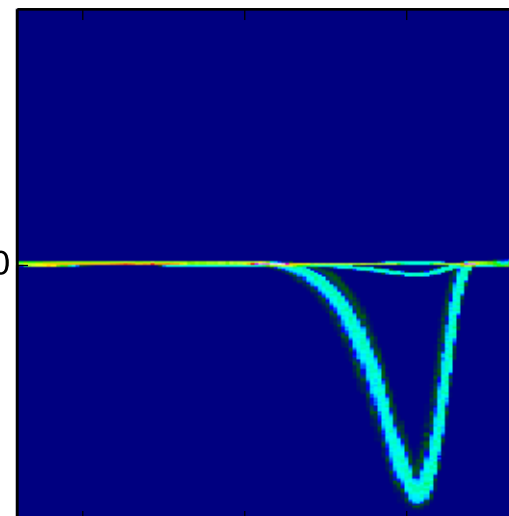
Curvature: -2000 : -1200



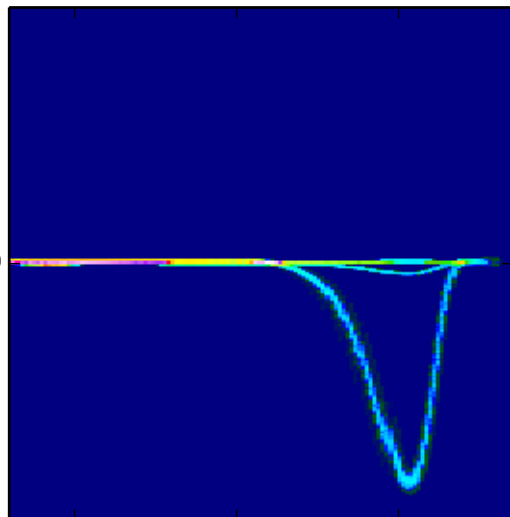
Curvature: -1200 : -400



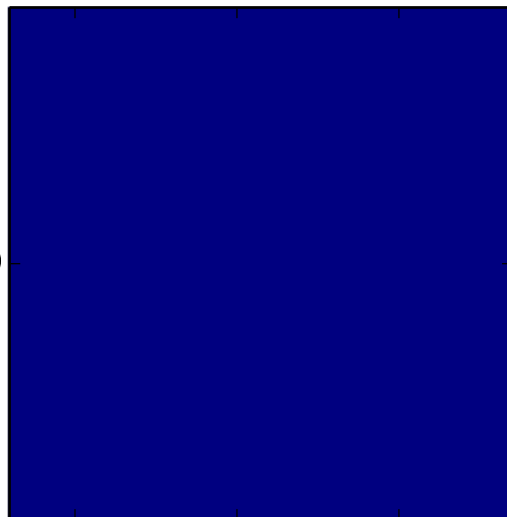
Curvature: -400 : 400



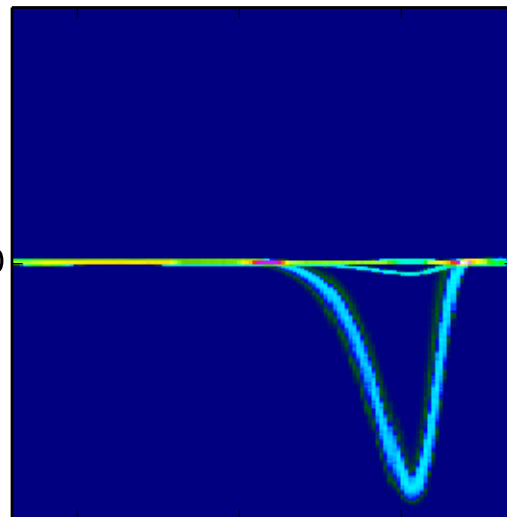
Curvature: 400 : 1200



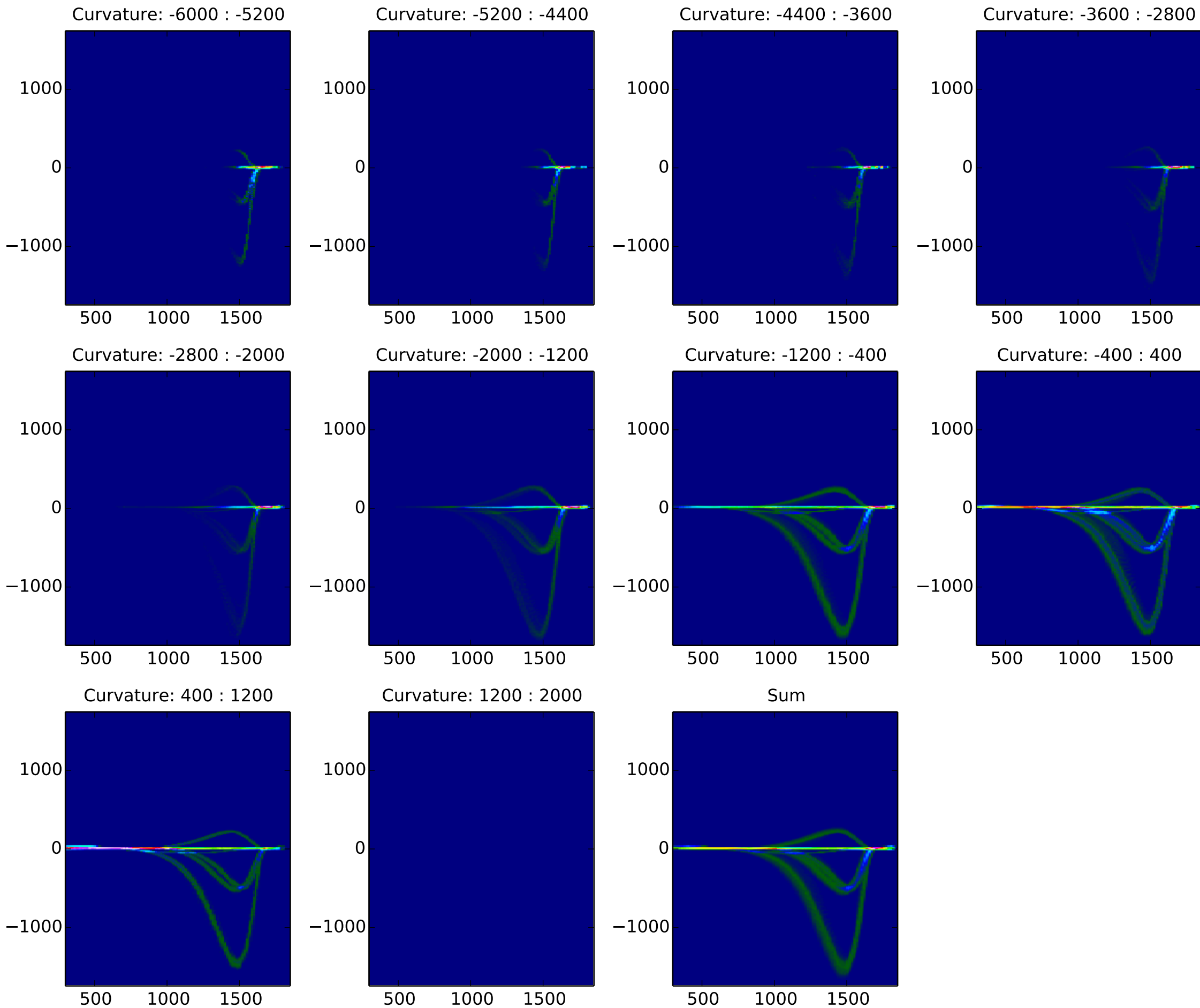
Curvature: 1200 : 2000



Sum

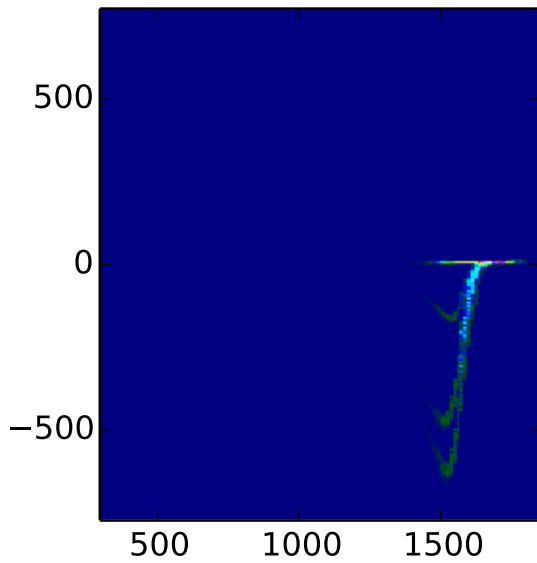


# Edge CH3 $\rightleftharpoons$ CH4

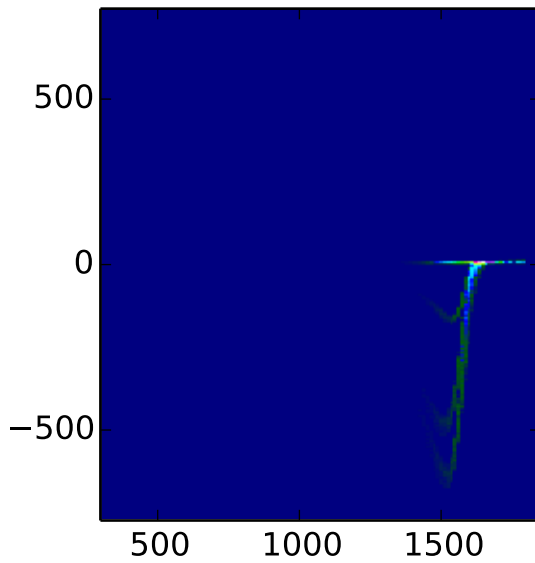


# Edge HCO $\rightleftharpoons$ CH<sub>2</sub>O

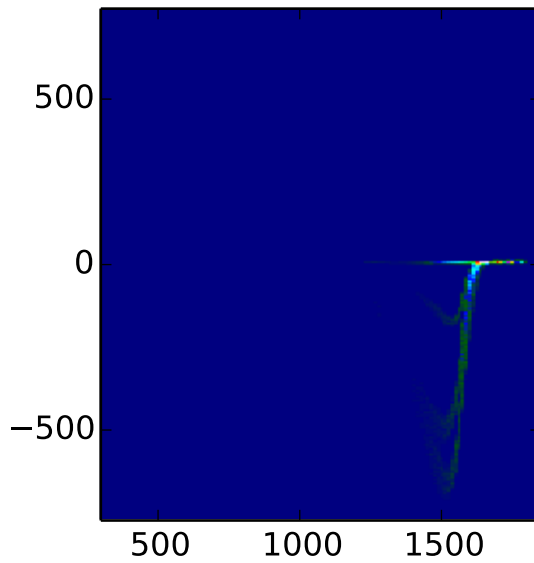
Curvature: -6000 : -5200



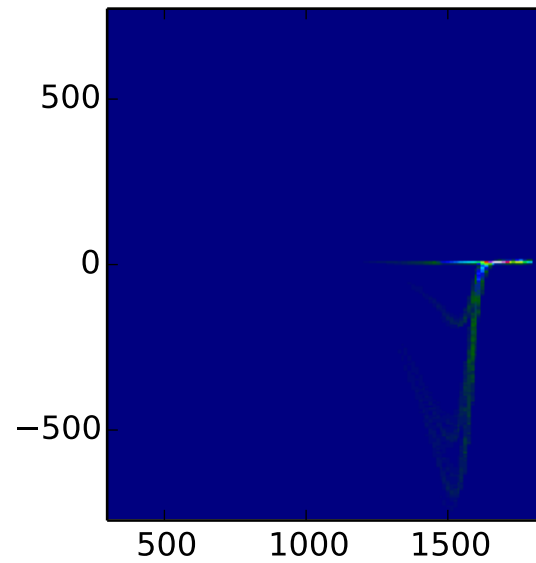
Curvature: -5200 : -4400



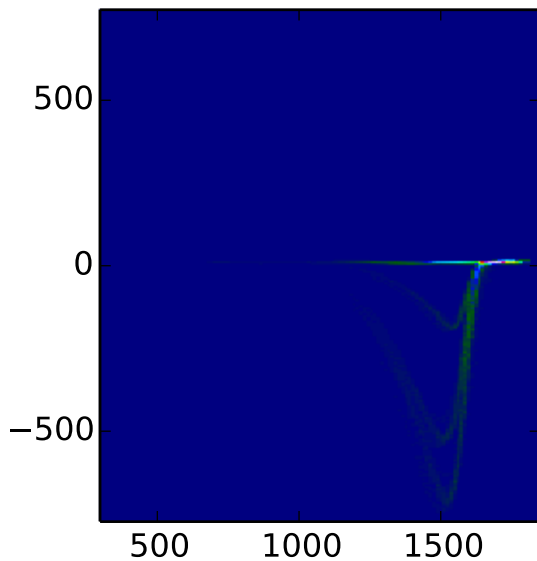
Curvature: -4400 : -3600



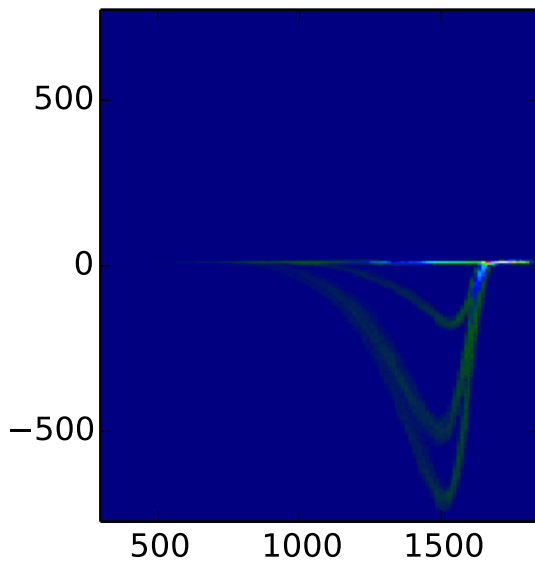
Curvature: -3600 : -2800



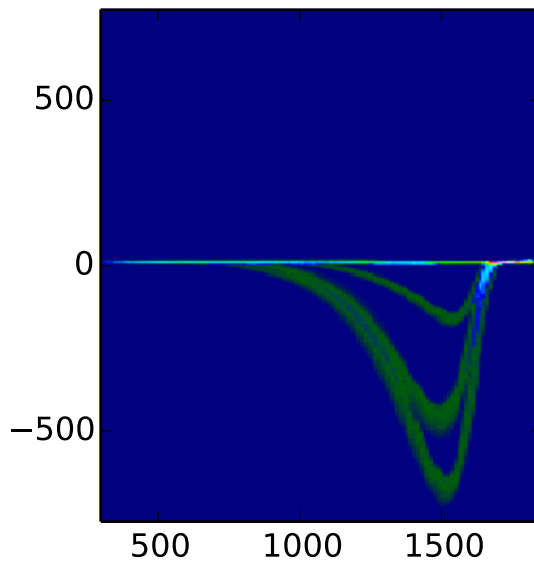
Curvature: -2800 : -2000



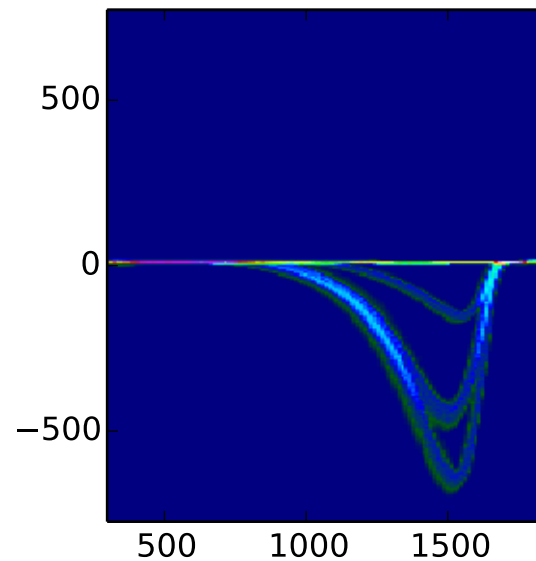
Curvature: -2000 : -1200



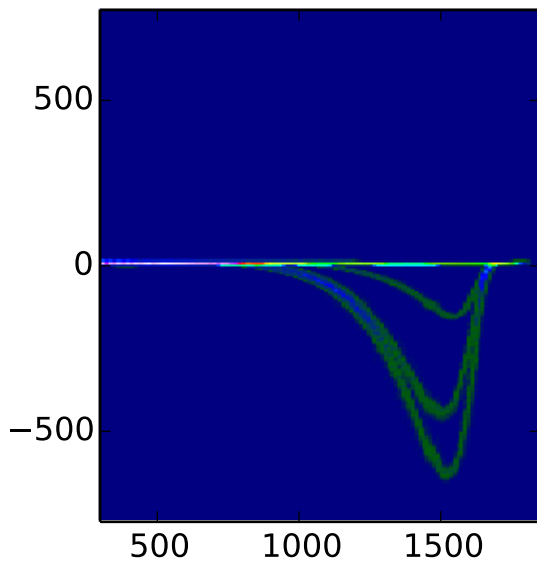
Curvature: -1200 : -400



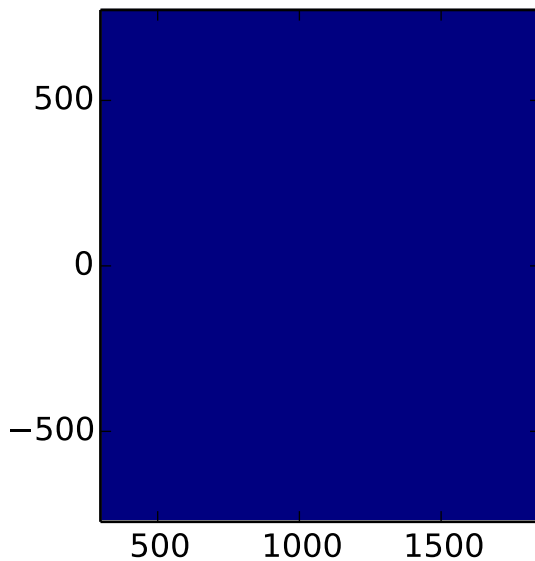
Curvature: -400 : 400



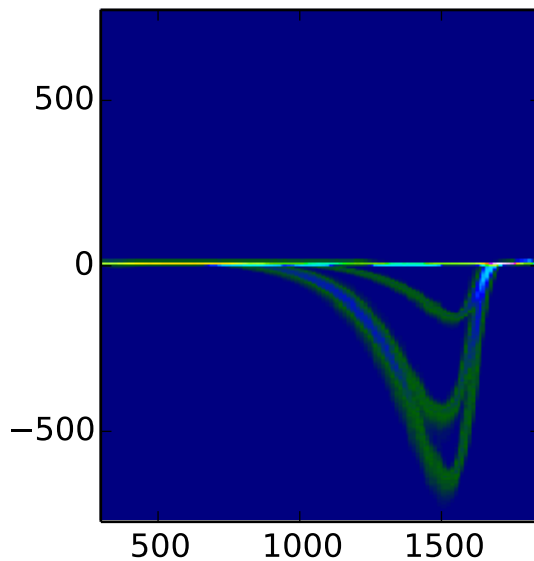
Curvature: 400 : 1200



Curvature: 1200 : 2000

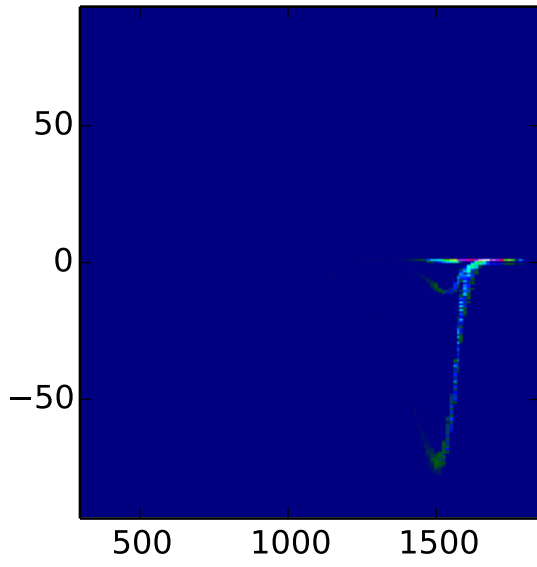


Sum

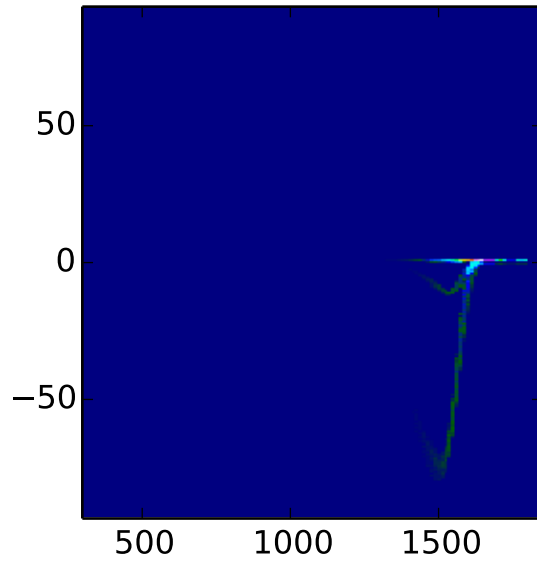


# Edge CH<sub>2</sub>O $\rightleftharpoons$ CH<sub>2</sub>OH

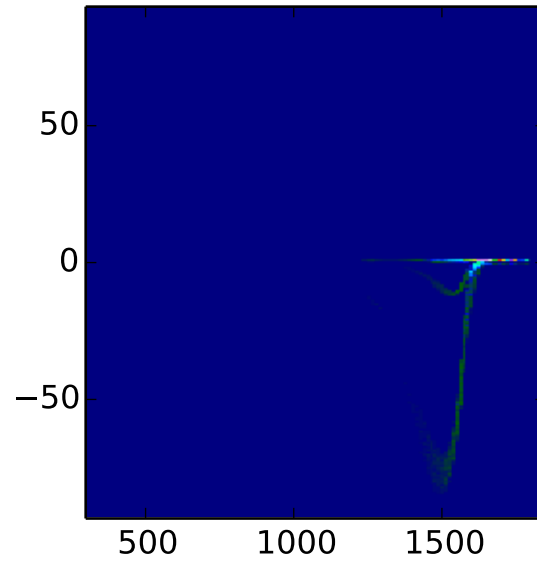
Curvature: -6000 : -5200



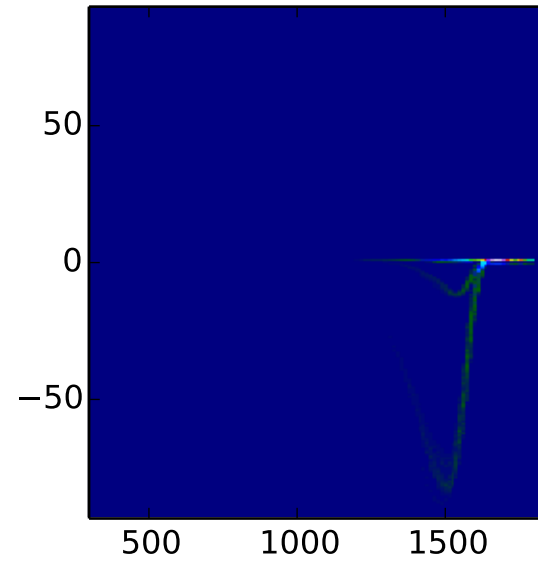
Curvature: -5200 : -4400



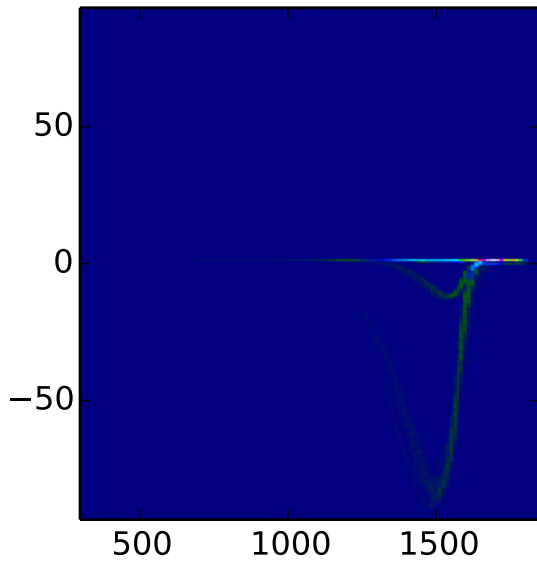
Curvature: -4400 : -3600



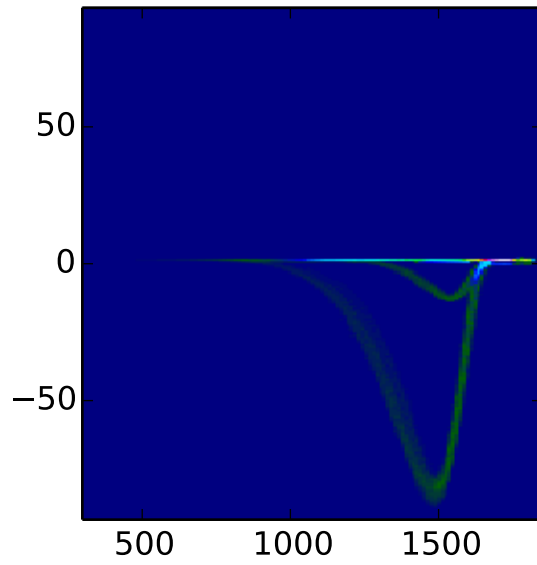
Curvature: -3600 : -2800



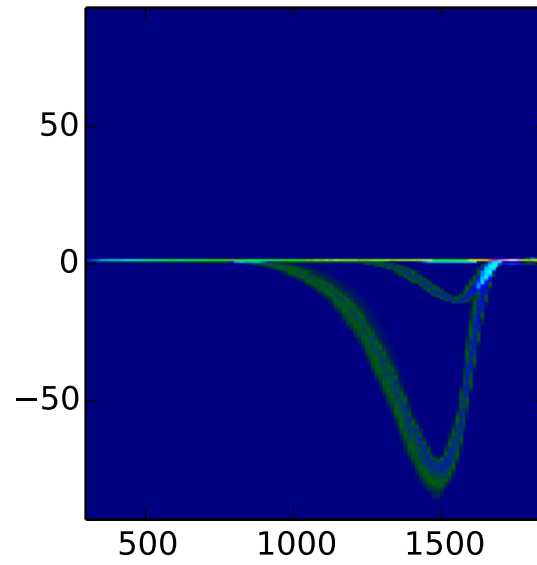
Curvature: -2800 : -2000



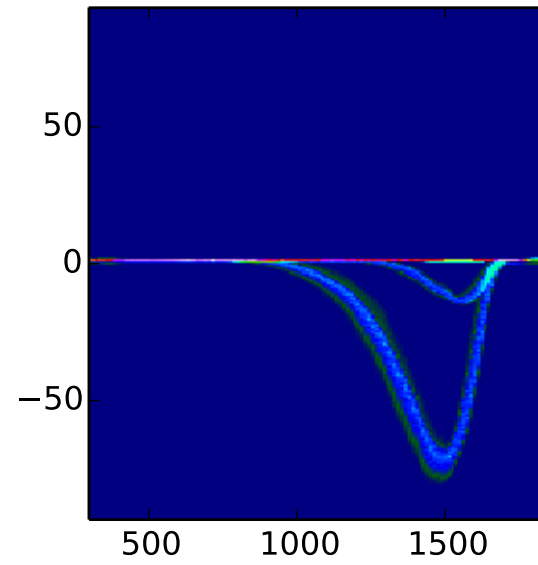
Curvature: -2000 : -1200



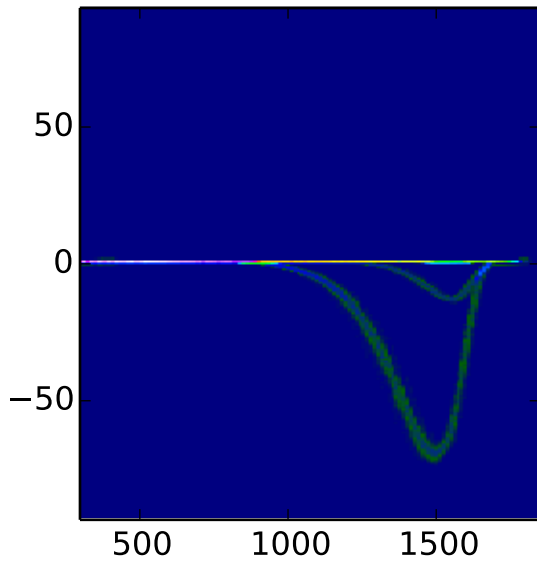
Curvature: -1200 : -400



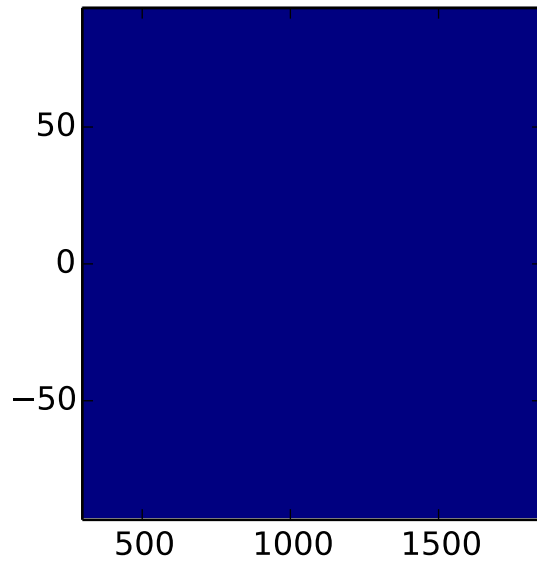
Curvature: -400 : 400



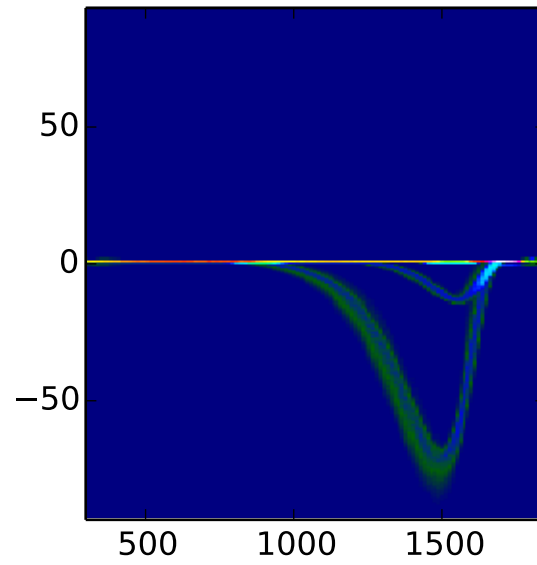
Curvature: 400 : 1200



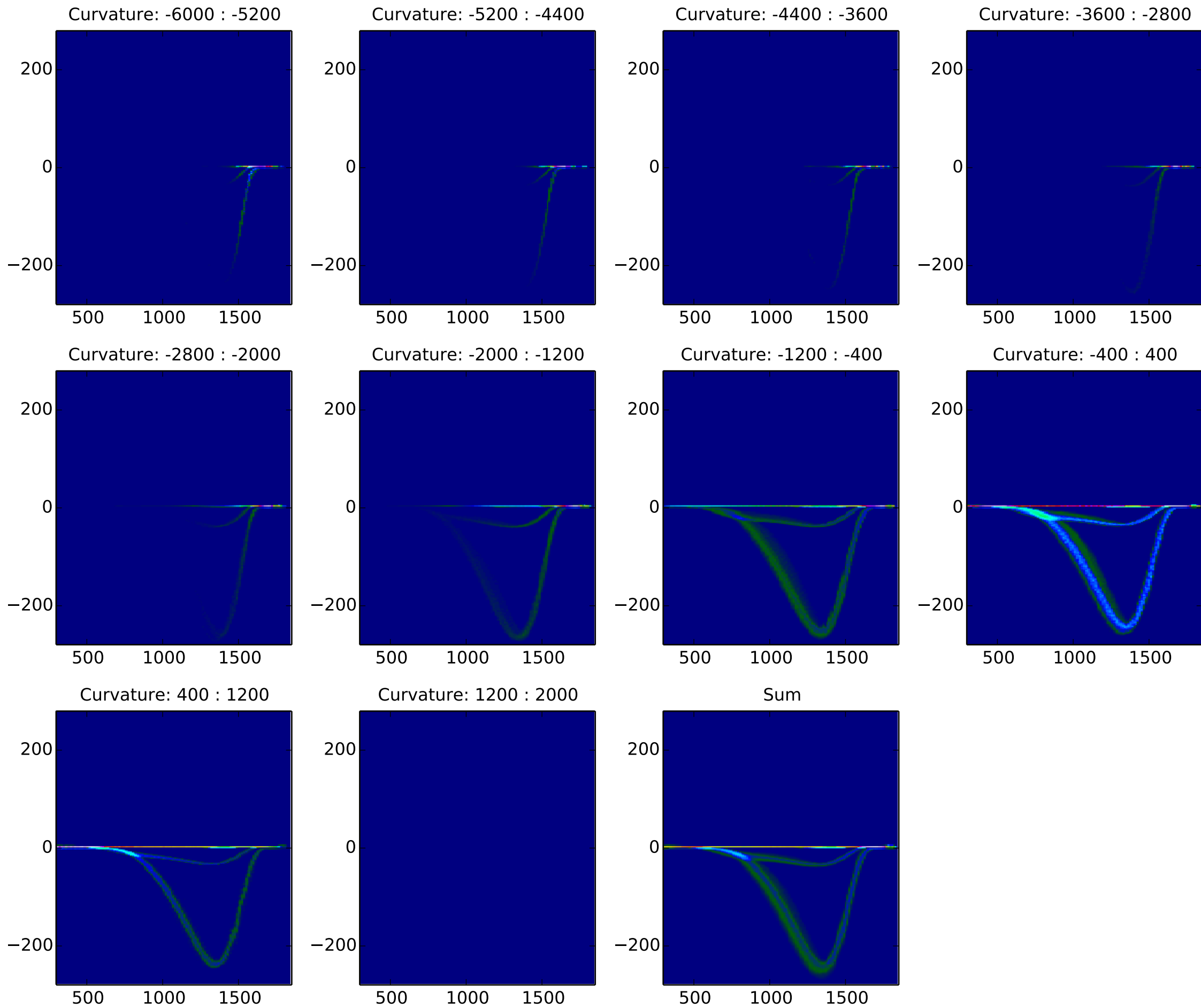
Curvature: 1200 : 2000



Sum

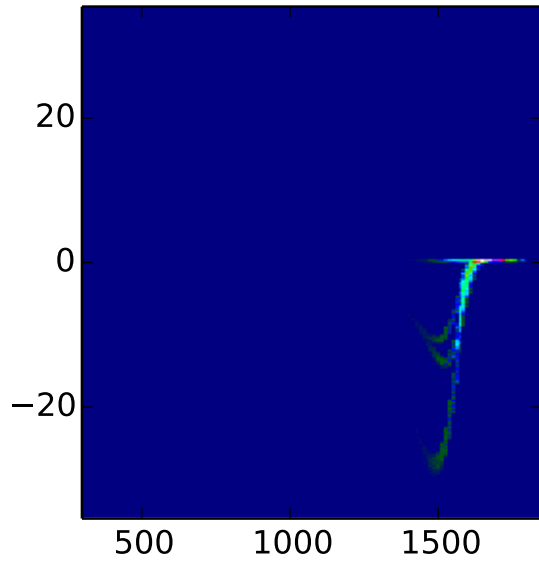


# Edge CH<sub>2</sub>O $\rightleftharpoons$ CH<sub>3</sub>O

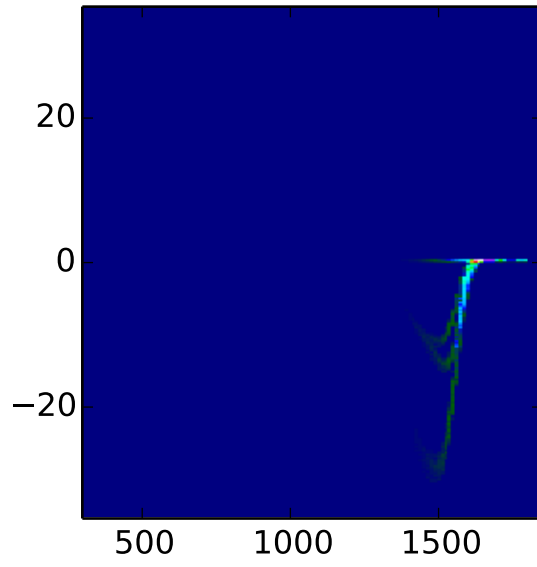


# Edge CH<sub>2</sub>OH $\rightleftharpoons$ CH<sub>3</sub>OH

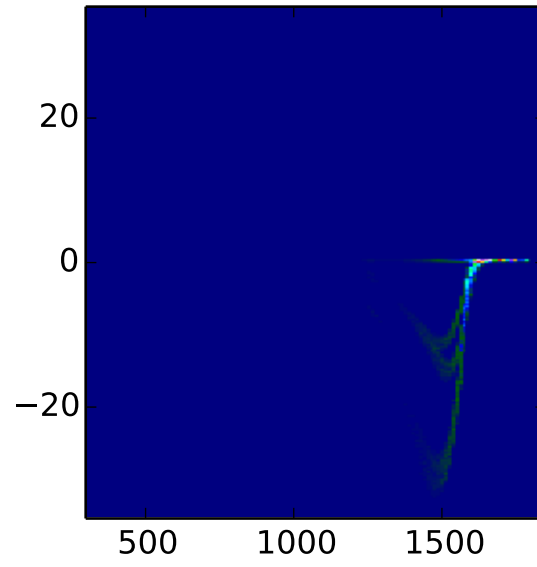
Curvature: -6000 : -5200



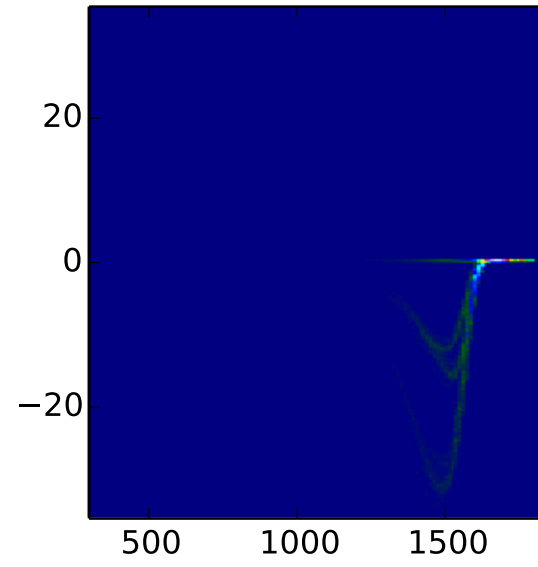
Curvature: -5200 : -4400



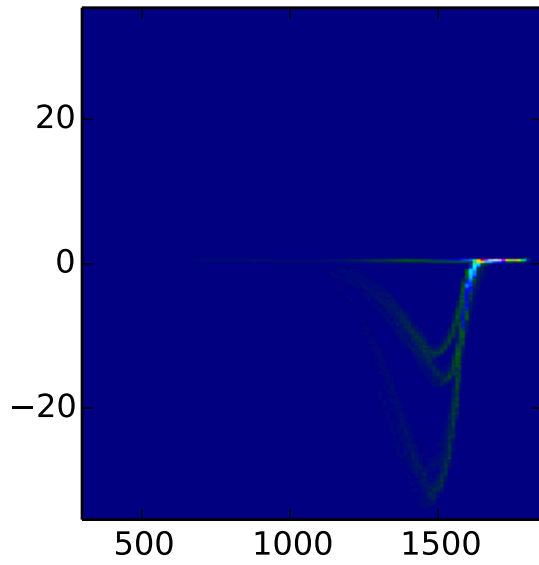
Curvature: -4400 : -3600



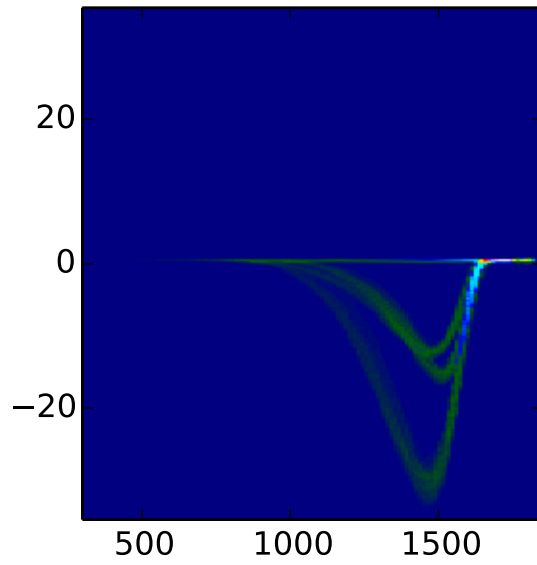
Curvature: -3600 : -2800



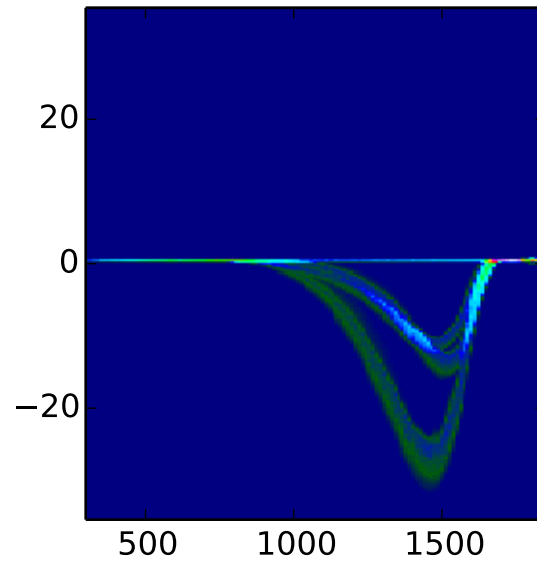
Curvature: -2800 : -2000



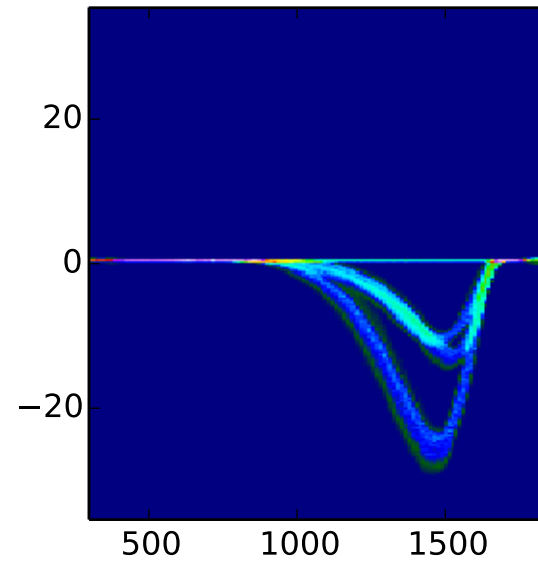
Curvature: -2000 : -1200



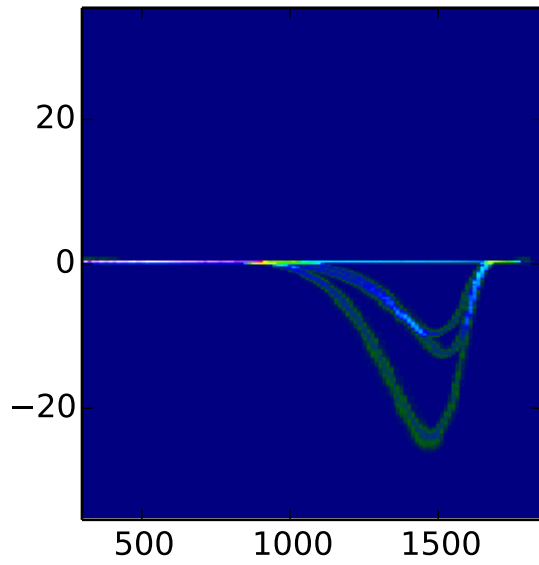
Curvature: -1200 : -400



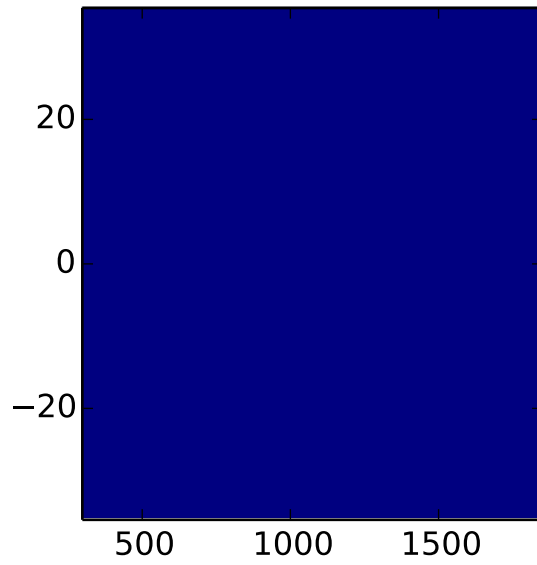
Curvature: -400 : 400



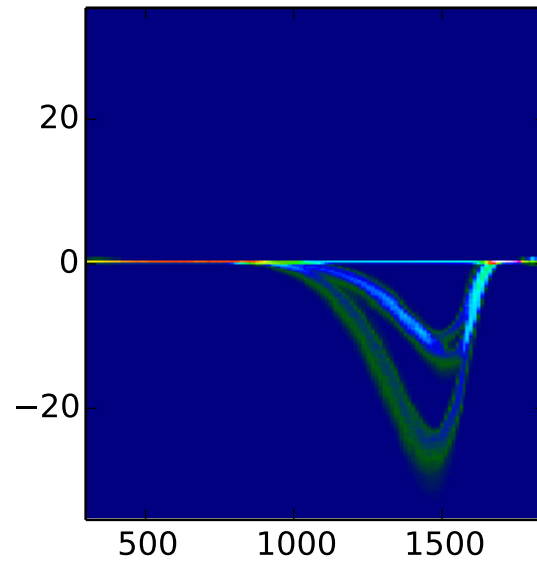
Curvature: 400 : 1200



Curvature: 1200 : 2000

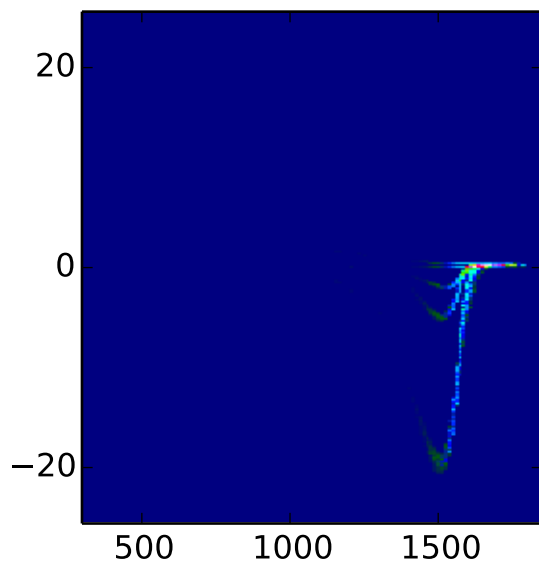


Sum

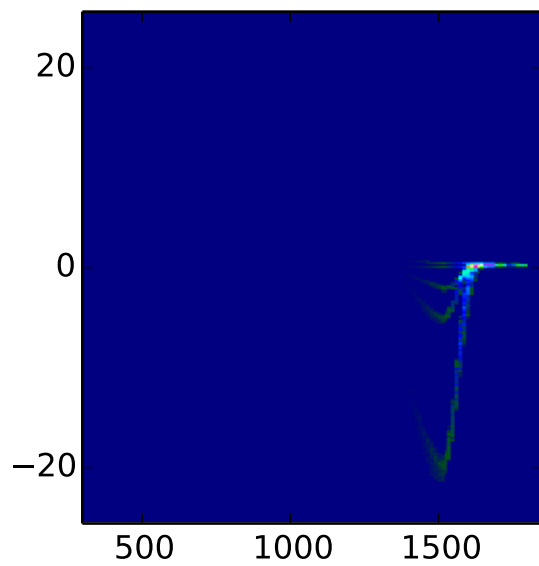


# Edge CH3O $\rightleftharpoons$ CH3OH

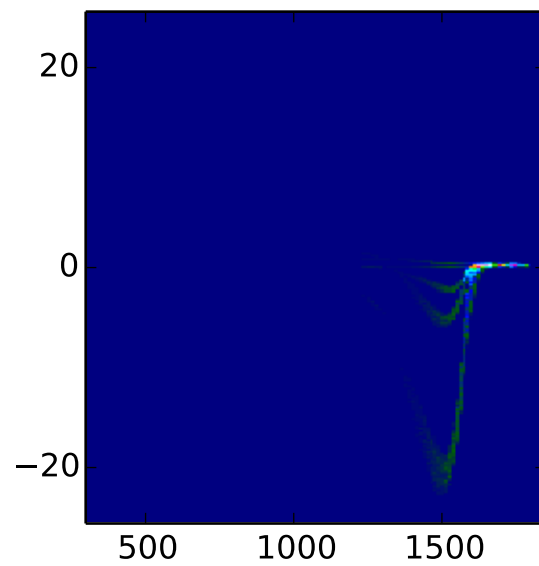
Curvature: -6000 : -5200



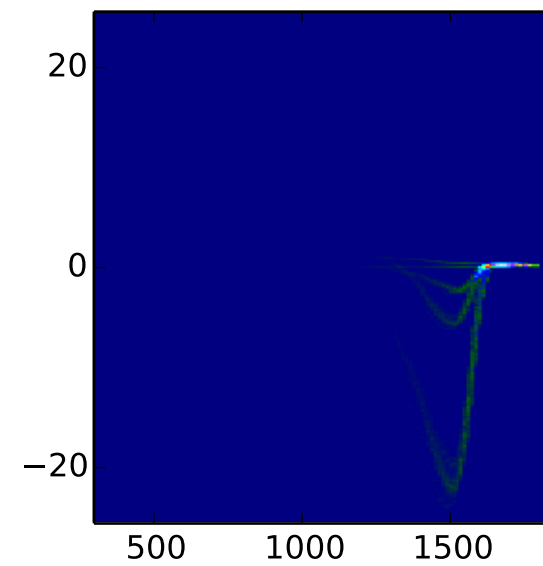
Curvature: -5200 : -4400



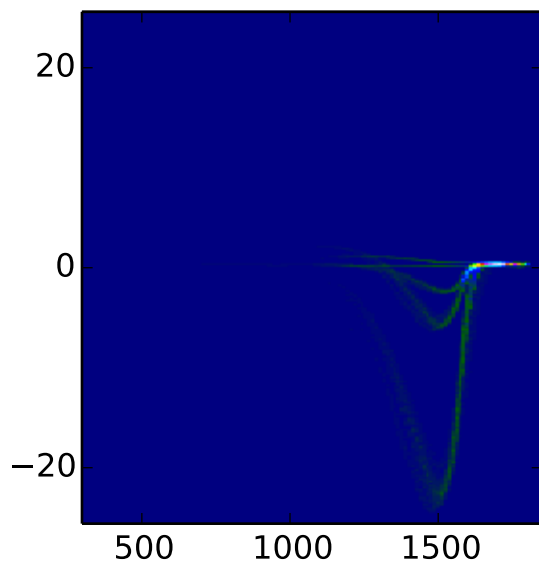
Curvature: -4400 : -3600



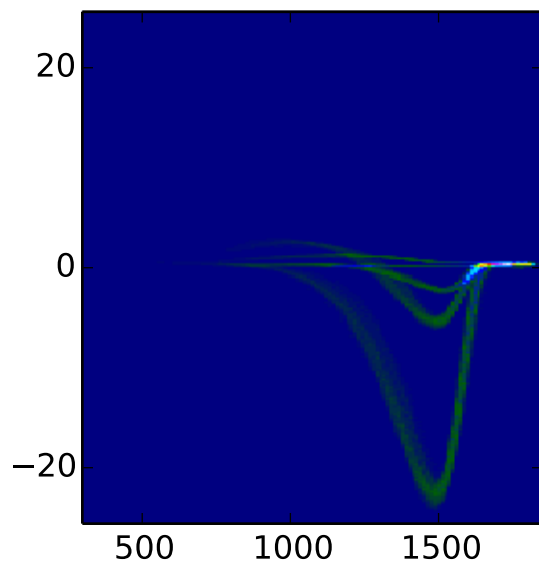
Curvature: -3600 : -2800



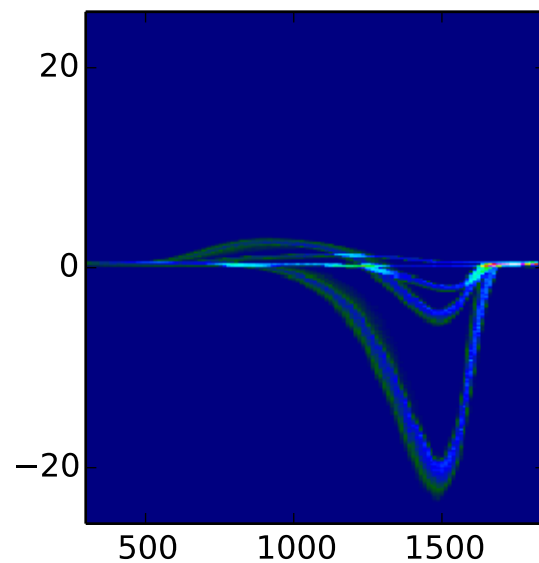
Curvature: -2800 : -2000



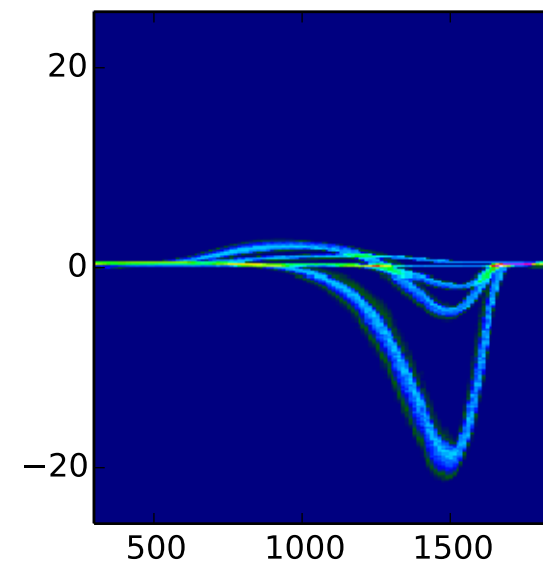
Curvature: -2000 : -1200



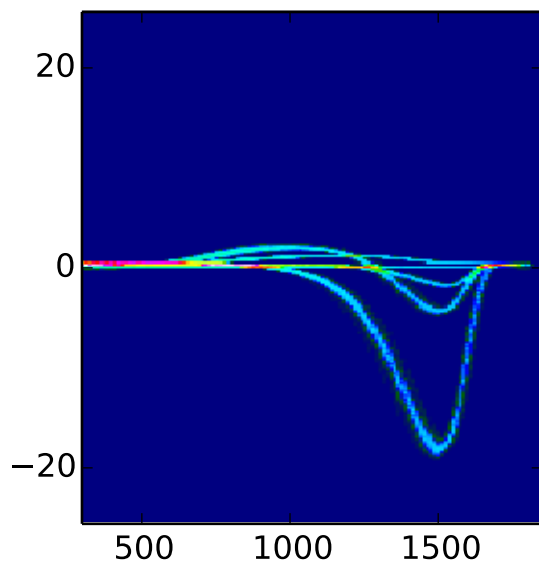
Curvature: -1200 : -400



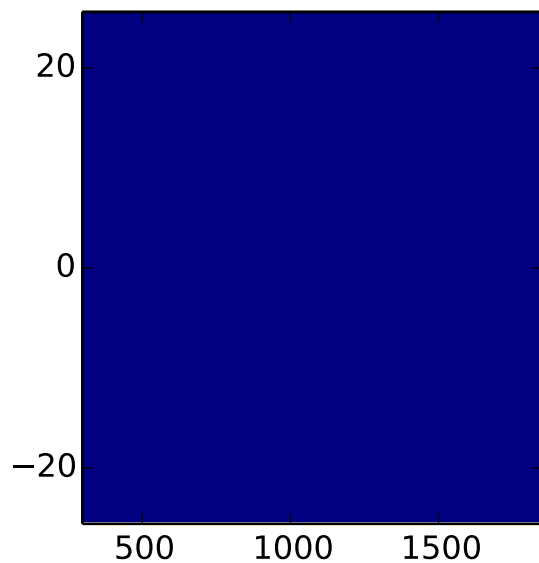
Curvature: -400 : 400



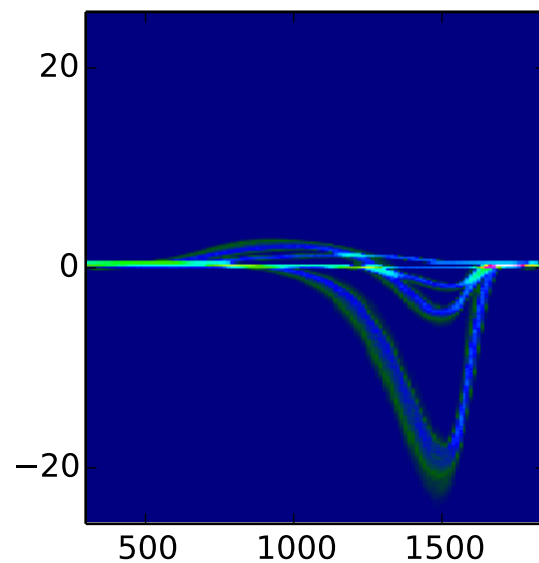
Curvature: 400 : 1200



Curvature: 1200 : 2000

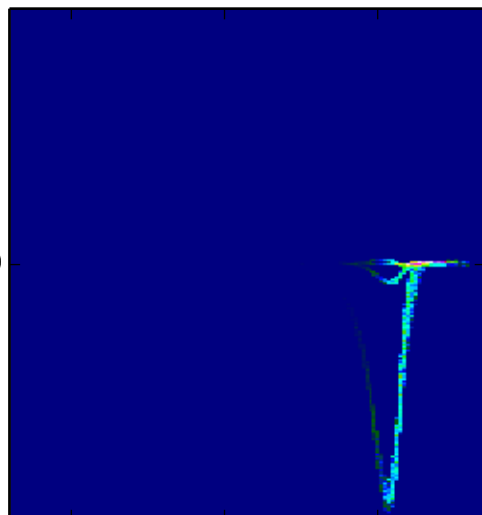


Sum

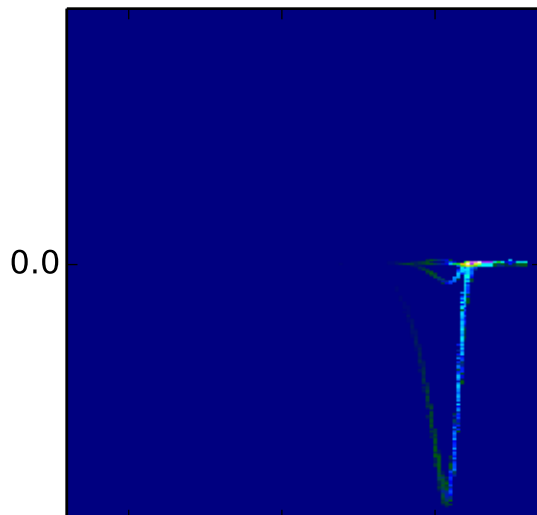


# Edge C2H $\rightleftharpoons$ C2H2

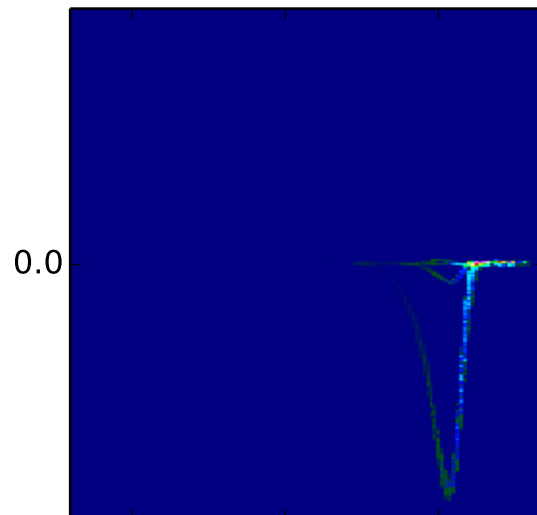
Curvature: -6000 : -5200



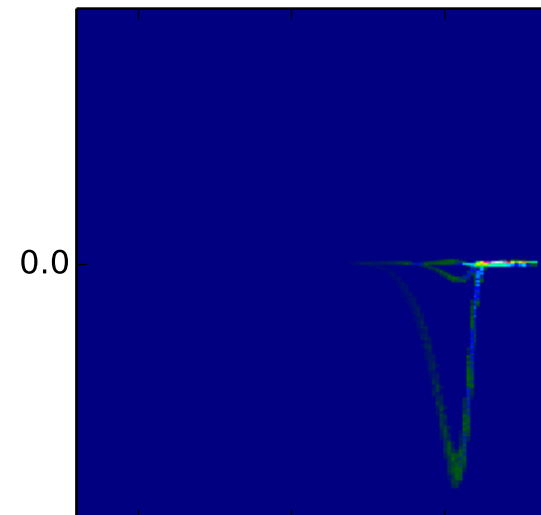
Curvature: -5200 : -4400



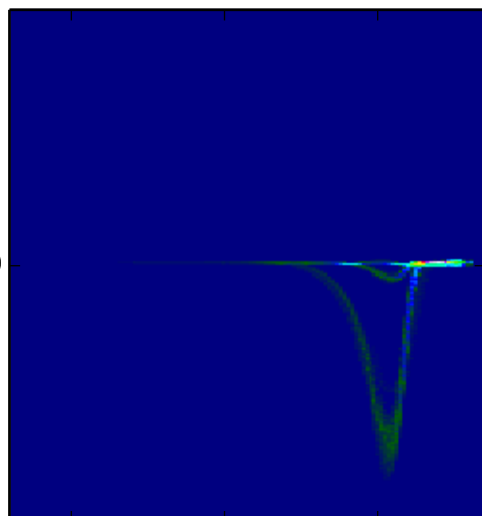
Curvature: -4400 : -3600



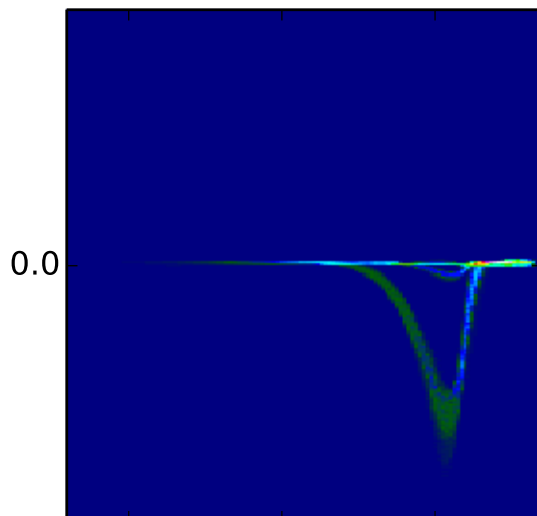
Curvature: -3600 : -2800



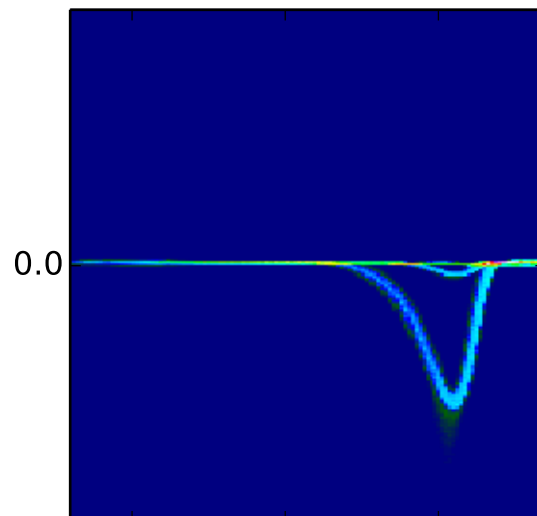
Curvature: -2800 : -2000



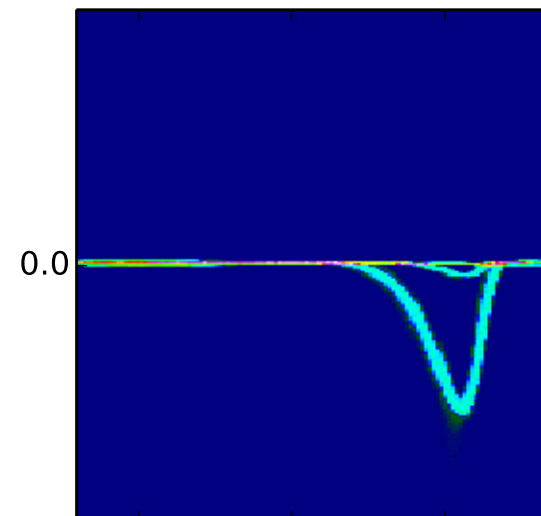
Curvature: -2000 : -1200



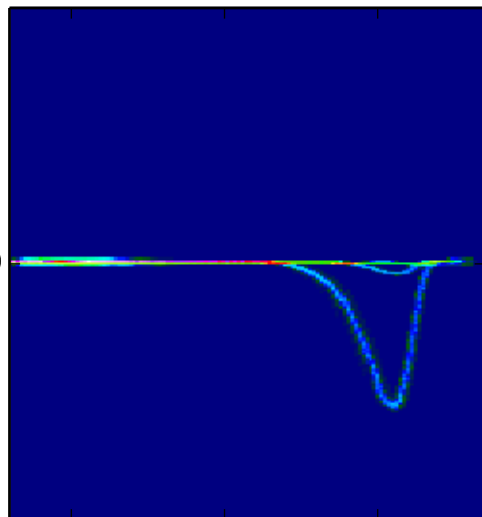
Curvature: -1200 : -400



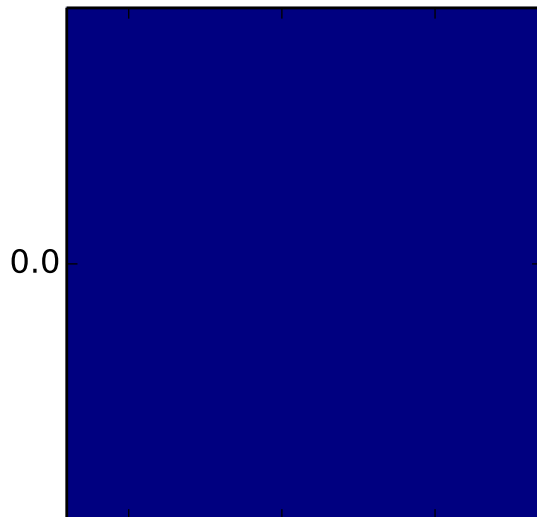
Curvature: -400 : 400



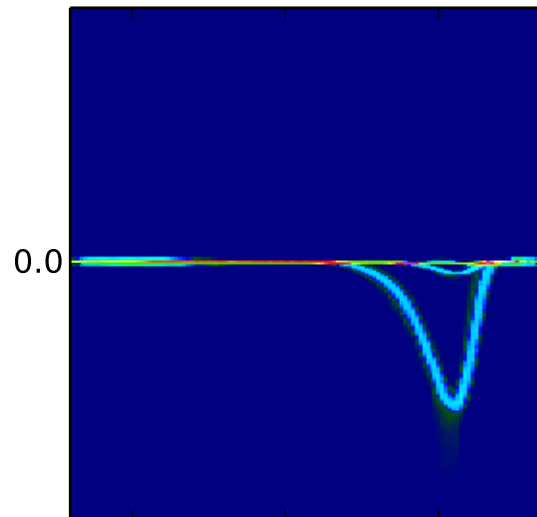
Curvature: 400 : 1200



Curvature: 1200 : 2000



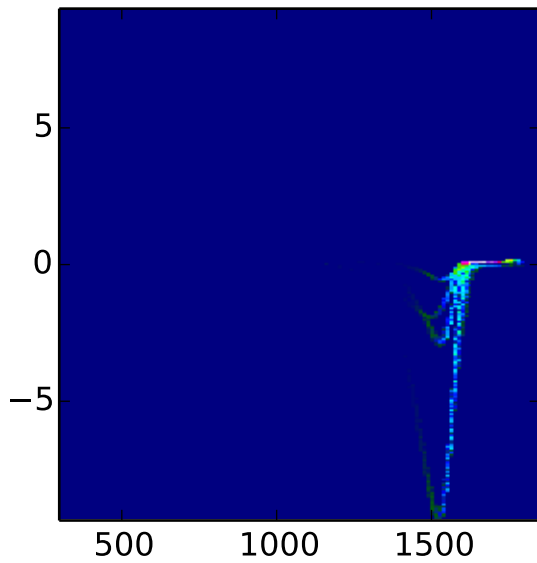
Sum



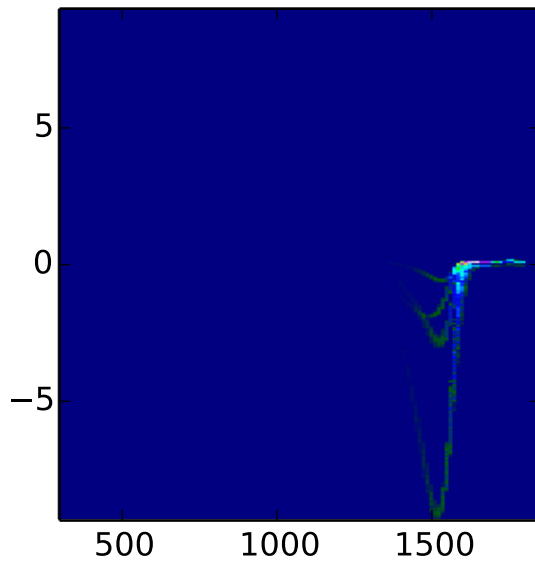


# Edge C2H2 $\rightleftharpoons$ C2H3

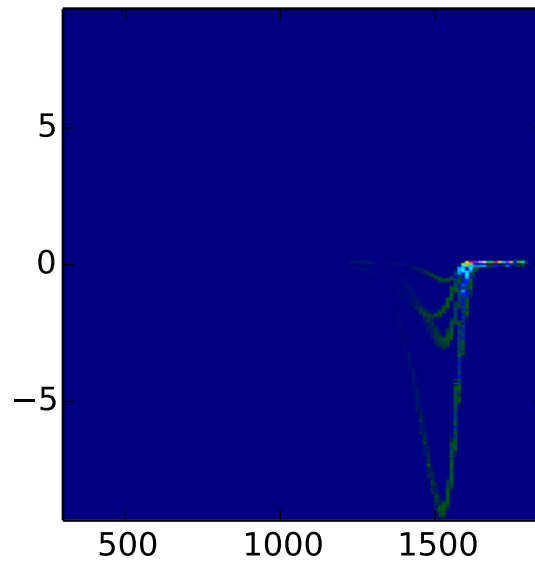
Curvature: -6000 : -5200



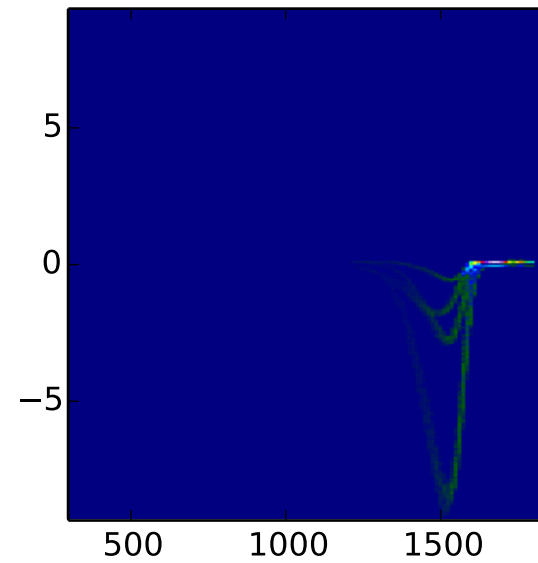
Curvature: -5200 : -4400



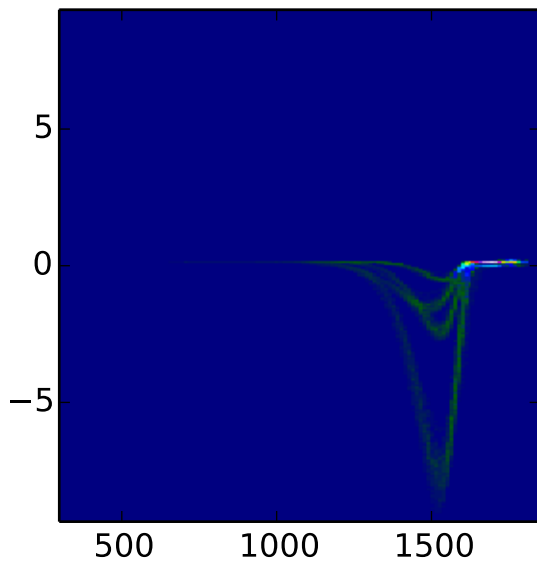
Curvature: -4400 : -3600



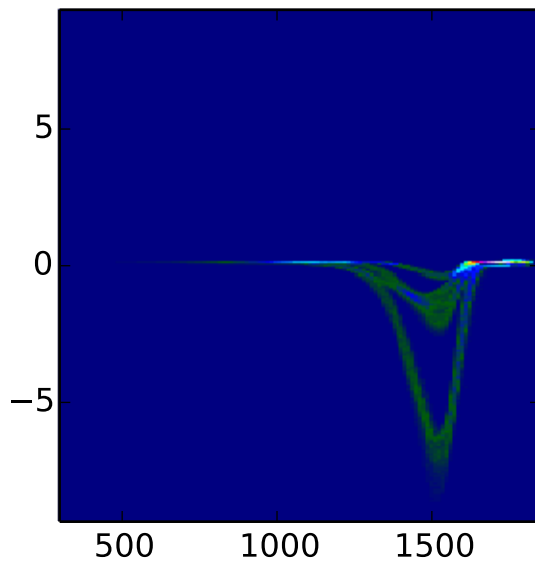
Curvature: -3600 : -2800



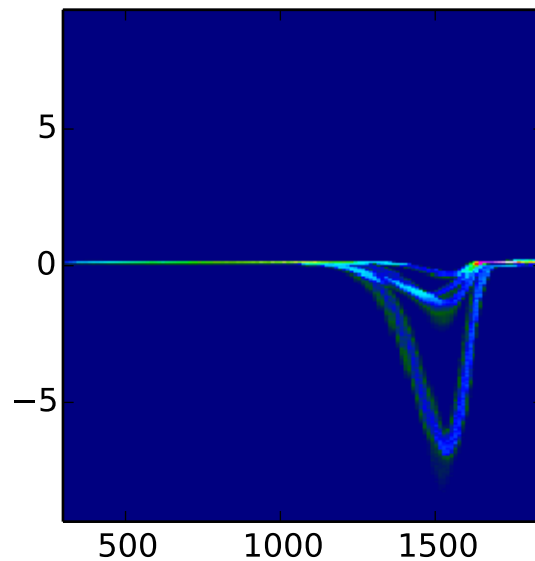
Curvature: -2800 : -2000



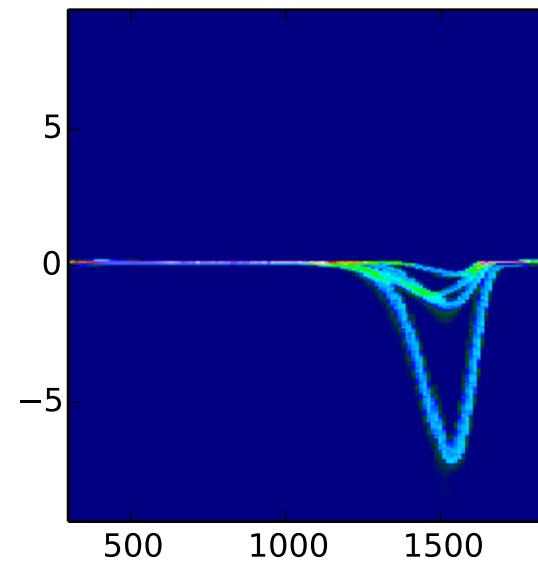
Curvature: -2000 : -1200



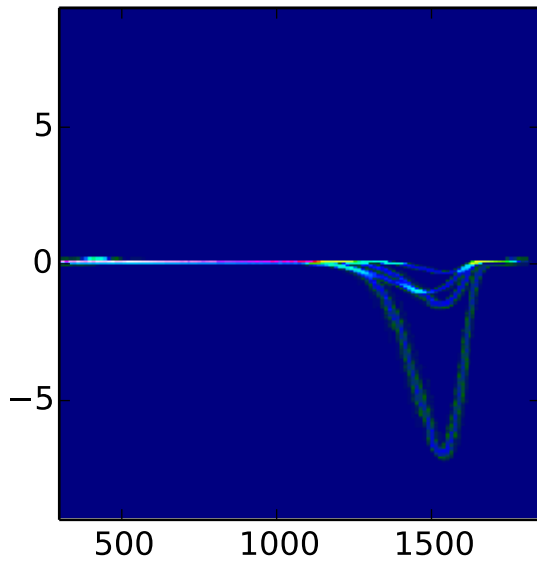
Curvature: -1200 : -400



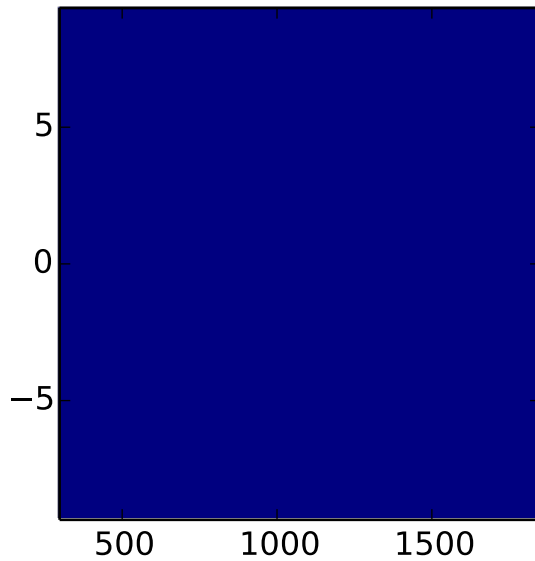
Curvature: -400 : 400



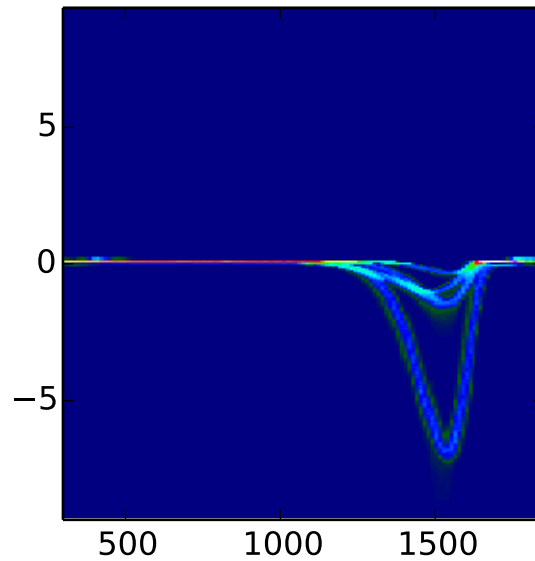
Curvature: 400 : 1200



Curvature: 1200 : 2000

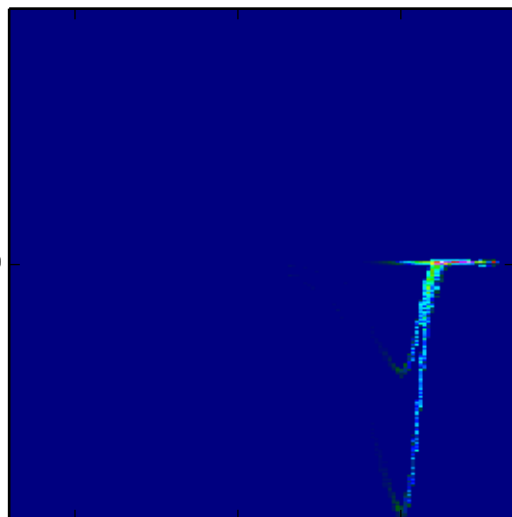


Sum

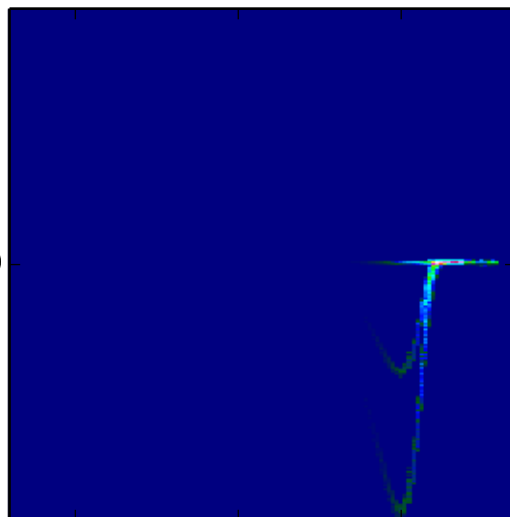


# Edge C2H3 $\rightleftharpoons$ C2H4

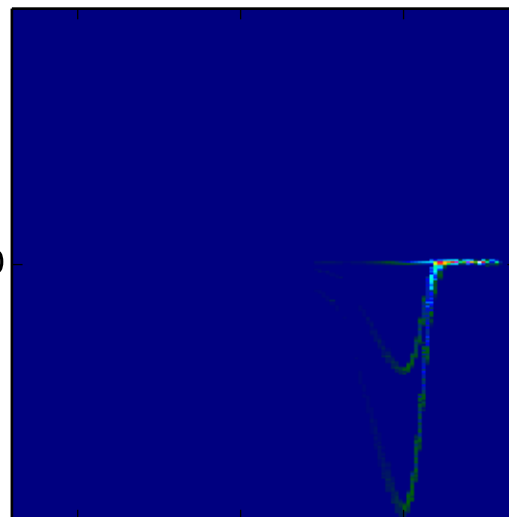
Curvature: -6000 : -5200



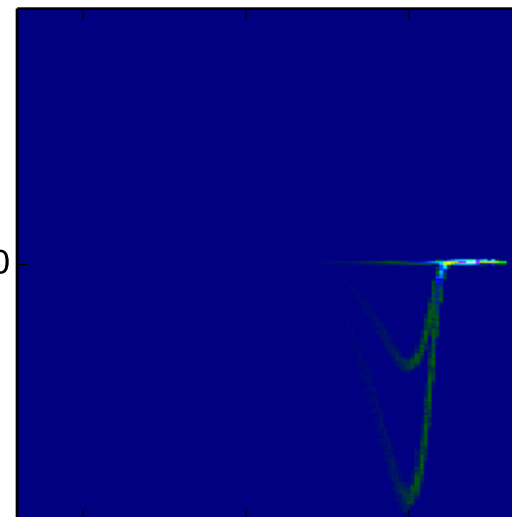
Curvature: -5200 : -4400



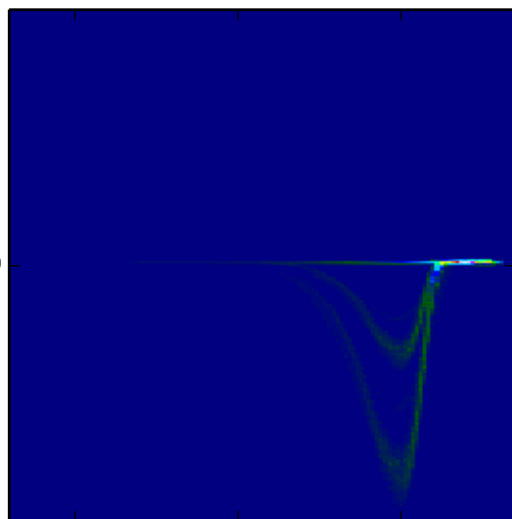
Curvature: -4400 : -3600



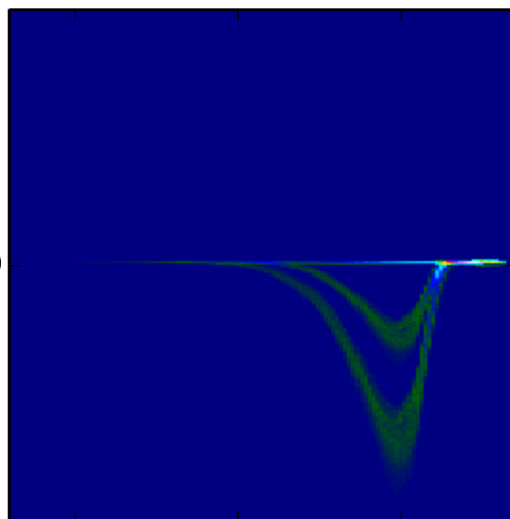
Curvature: -3600 : -2800



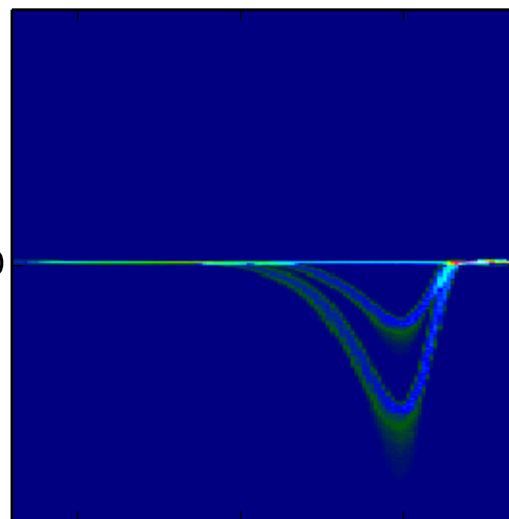
Curvature: -2800 : -2000



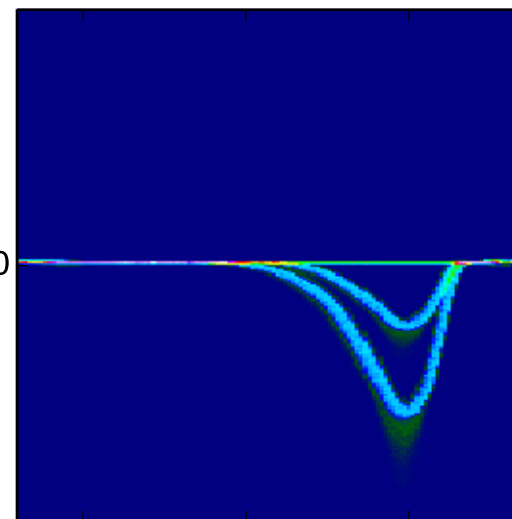
Curvature: -2000 : -1200



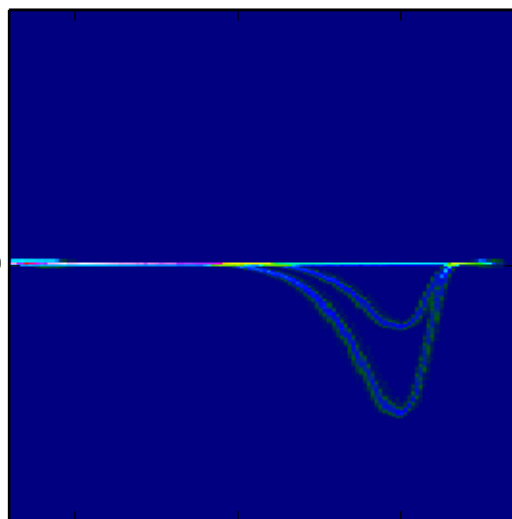
Curvature: -1200 : -400



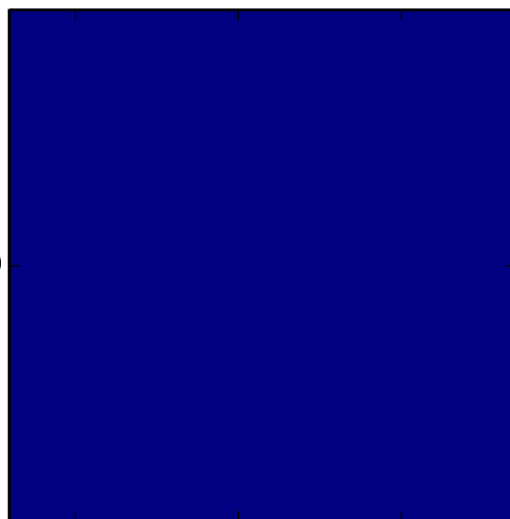
Curvature: -400 : 400



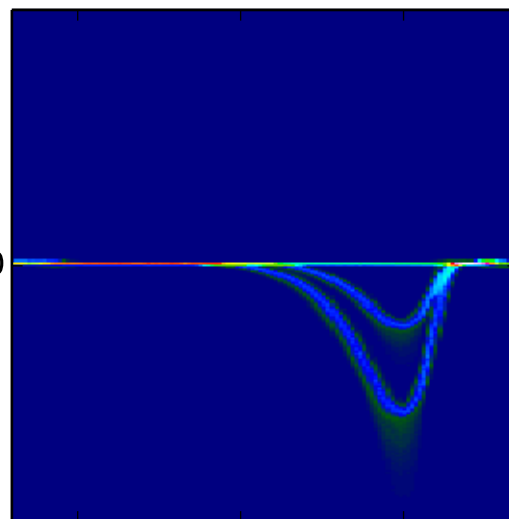
Curvature: 400 : 1200



Curvature: 1200 : 2000

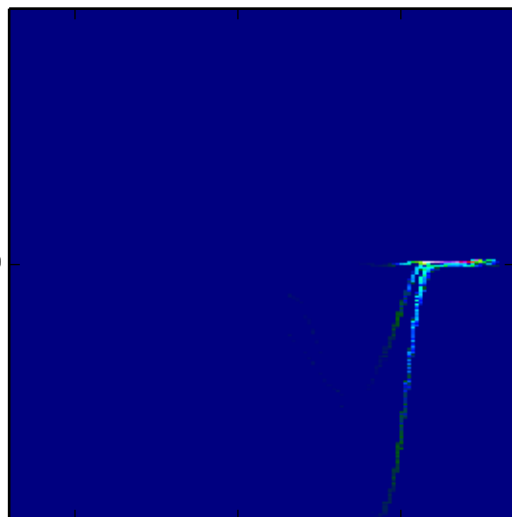


Sum

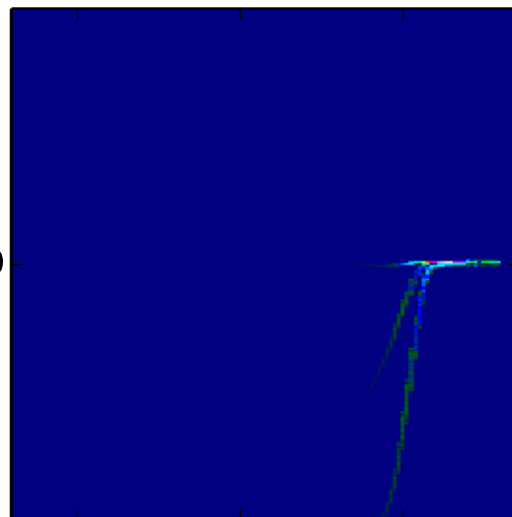


# Edge C2H4 $\rightleftharpoons$ C2H5

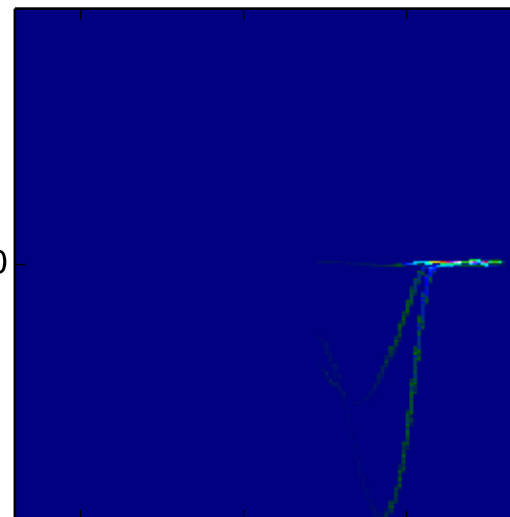
Curvature: -6000 : -5200



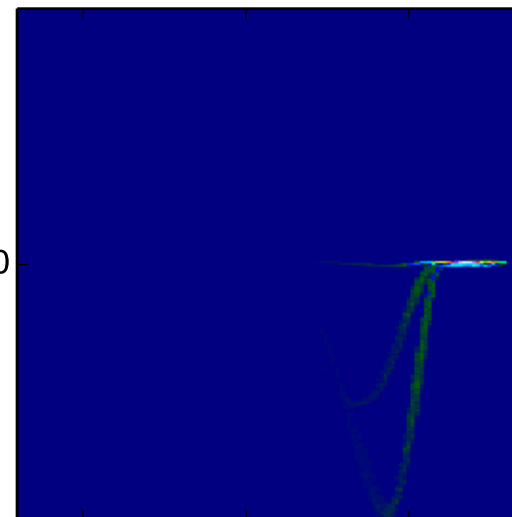
Curvature: -5200 : -4400



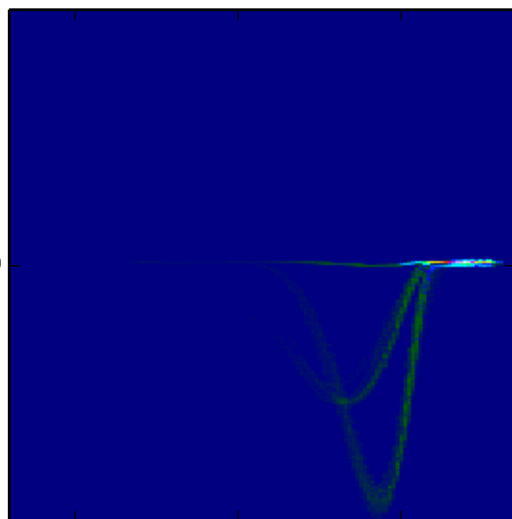
Curvature: -4400 : -3600



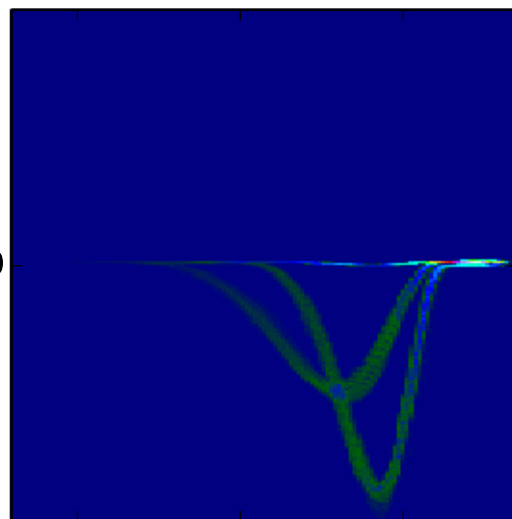
Curvature: -3600 : -2800



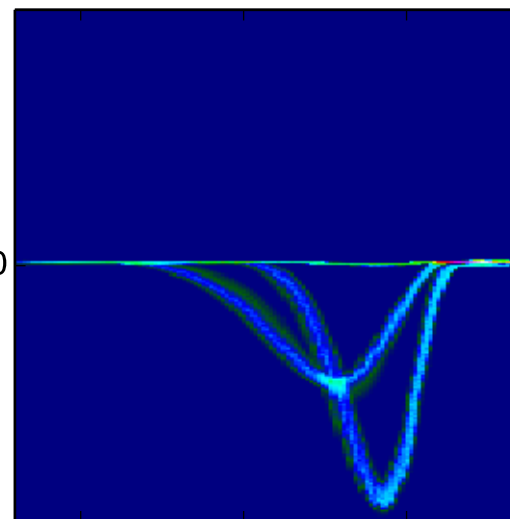
Curvature: -2800 : -2000



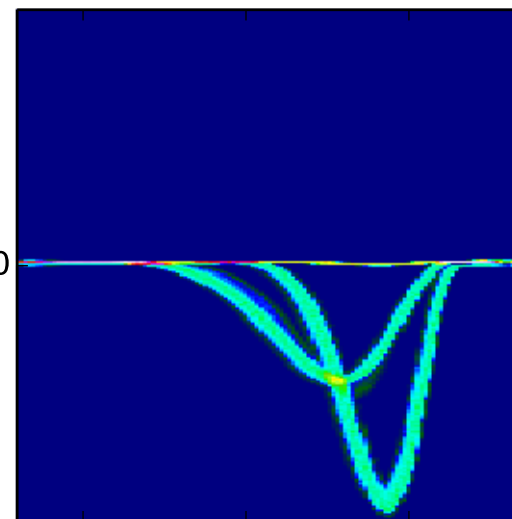
Curvature: -2000 : -1200



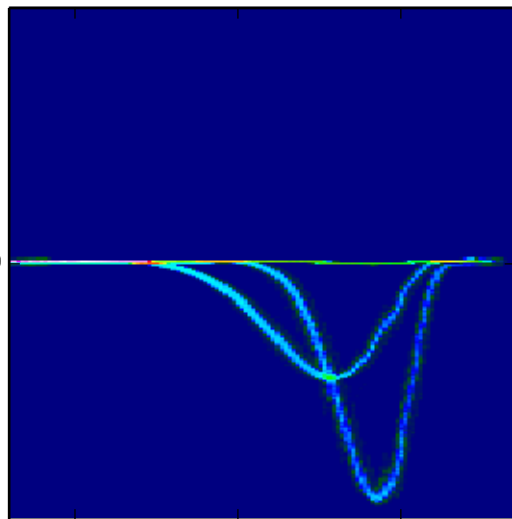
Curvature: -1200 : -400



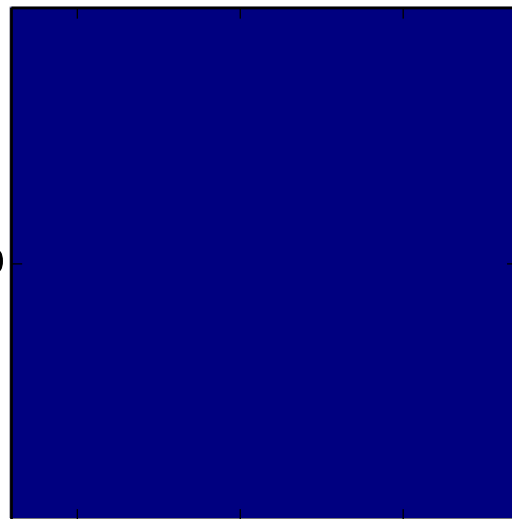
Curvature: -400 : 400



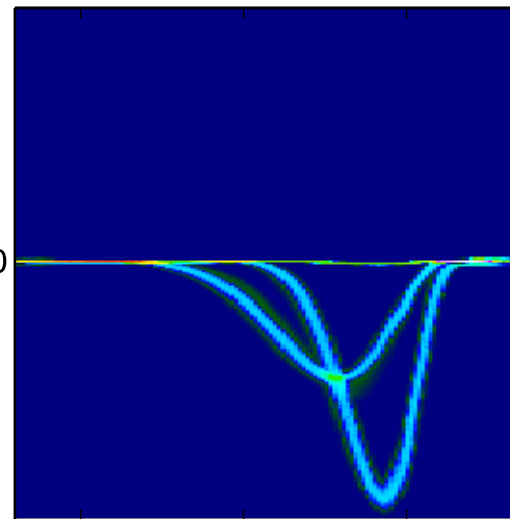
Curvature: 400 : 1200



Curvature: 1200 : 2000



Sum

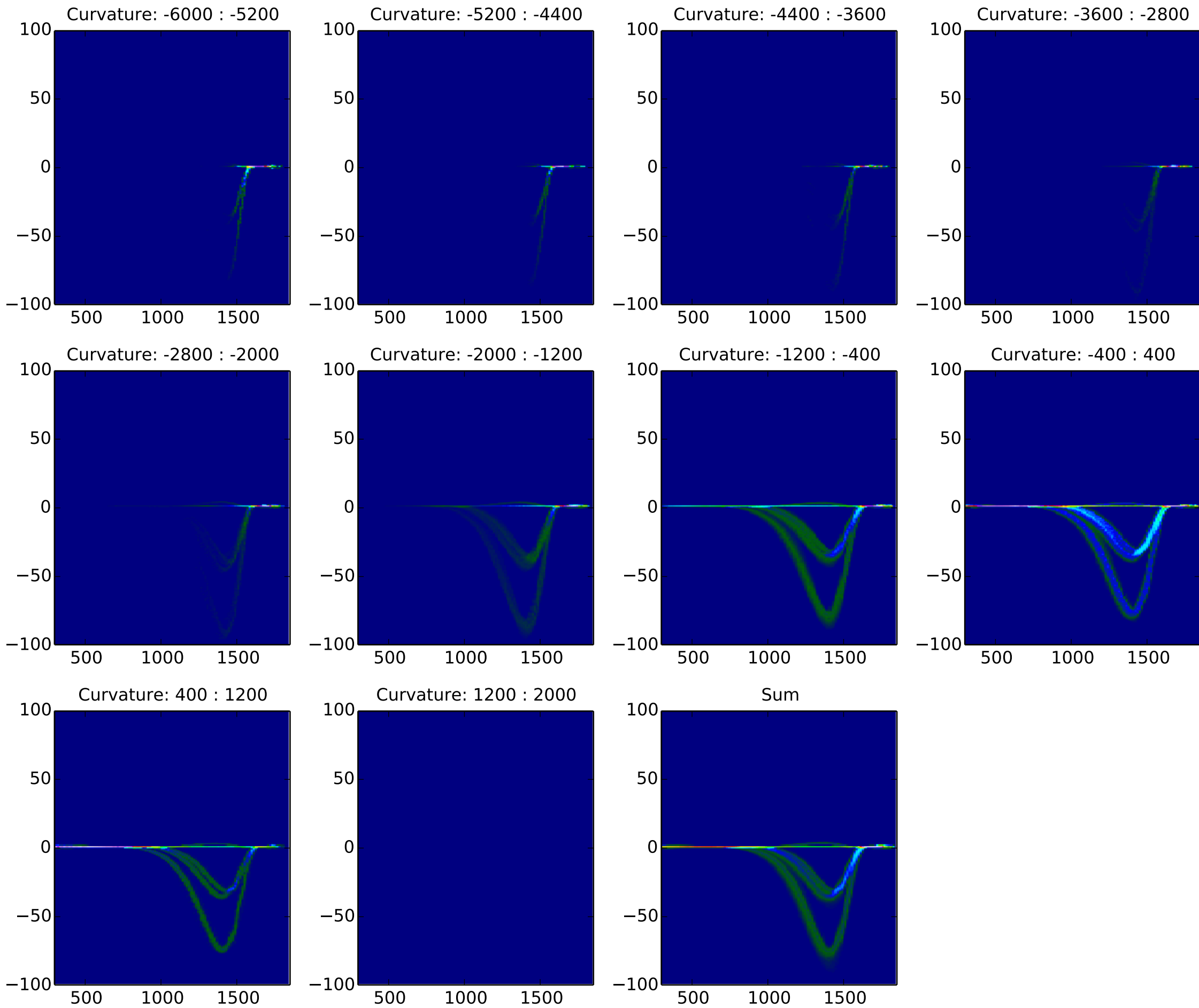


500 1000 1500

500 1000 1500

500 1000 1500

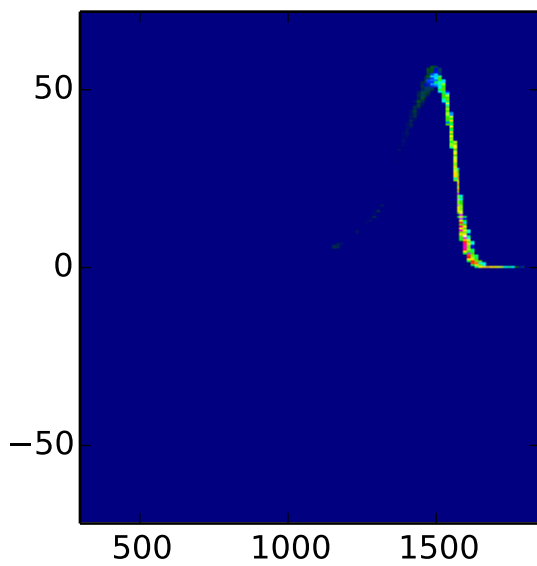
# Edge C2H5 $\rightleftharpoons$ C2H6



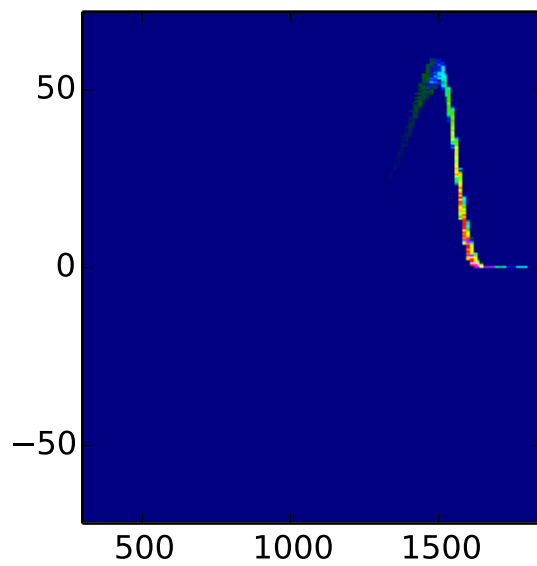


# Edge CH3 $\rightleftharpoons$ CH3OH

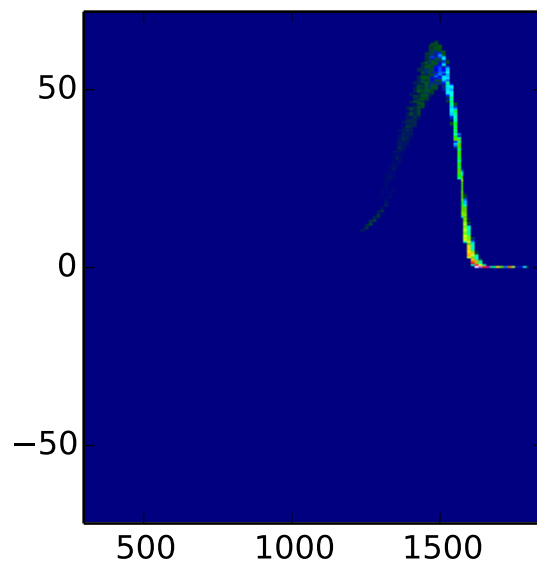
Curvature: -6000 : -5200



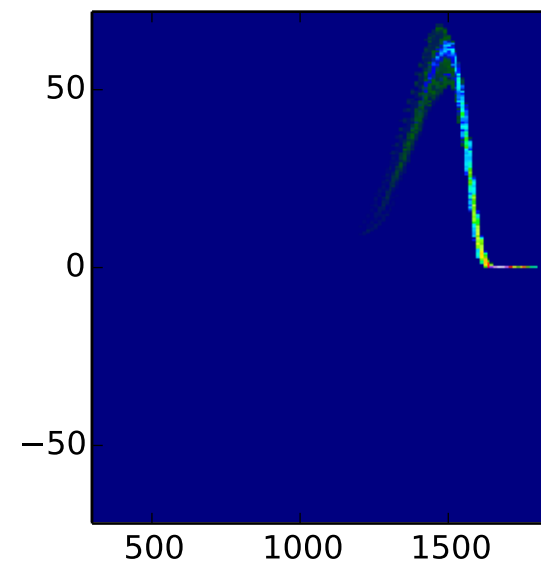
Curvature: -5200 : -4400



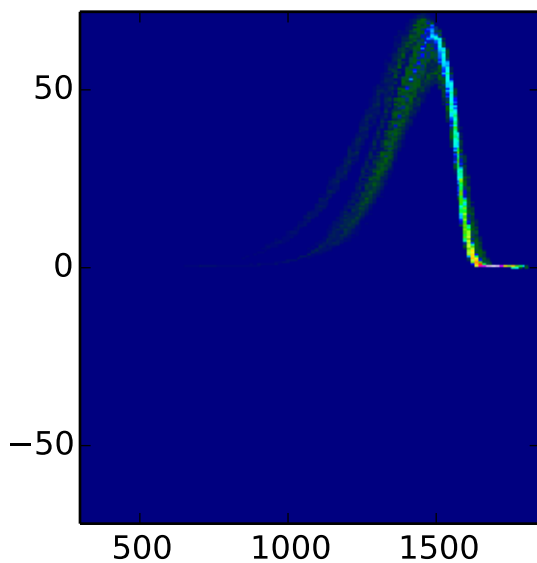
Curvature: -4400 : -3600



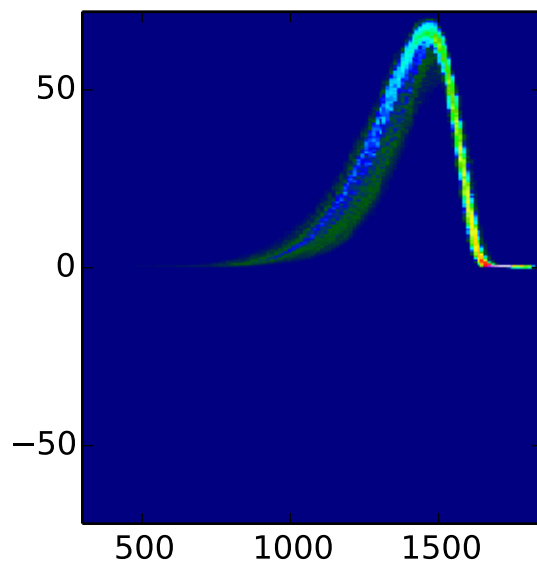
Curvature: -3600 : -2800



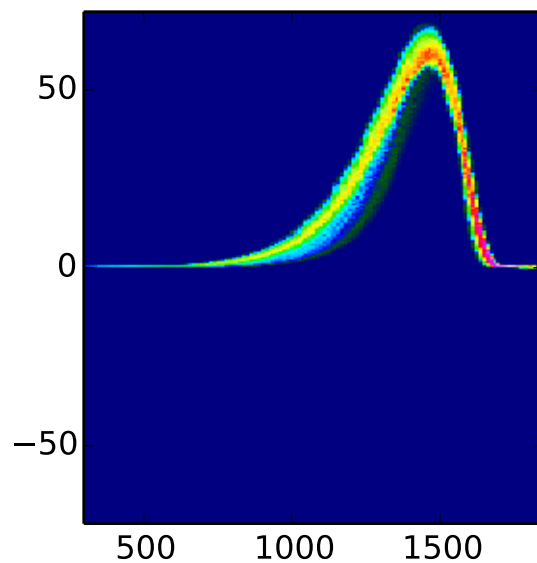
Curvature: -2800 : -2000



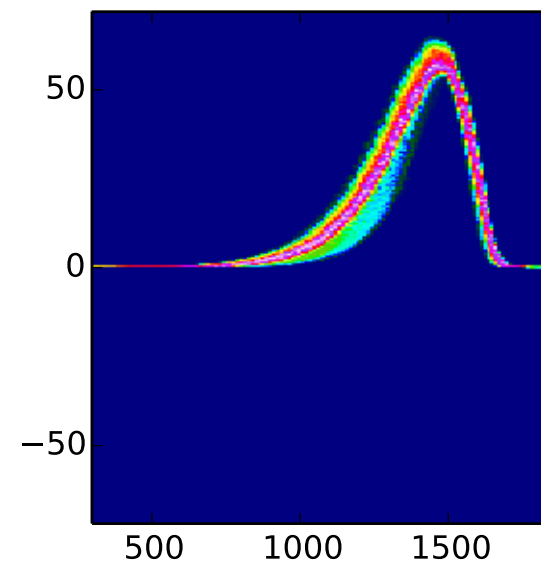
Curvature: -2000 : -1200



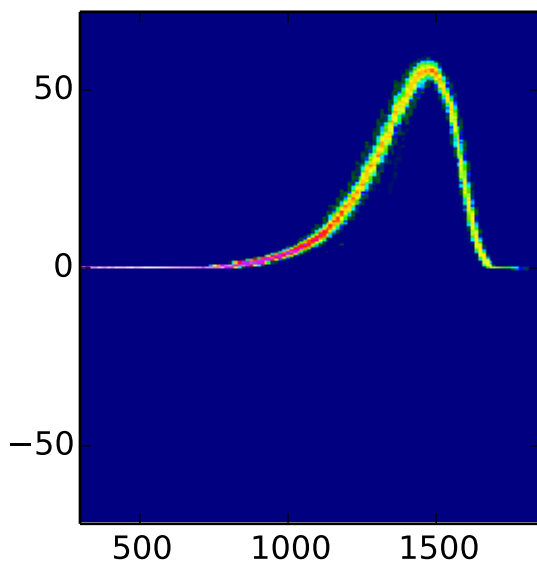
Curvature: -1200 : -400



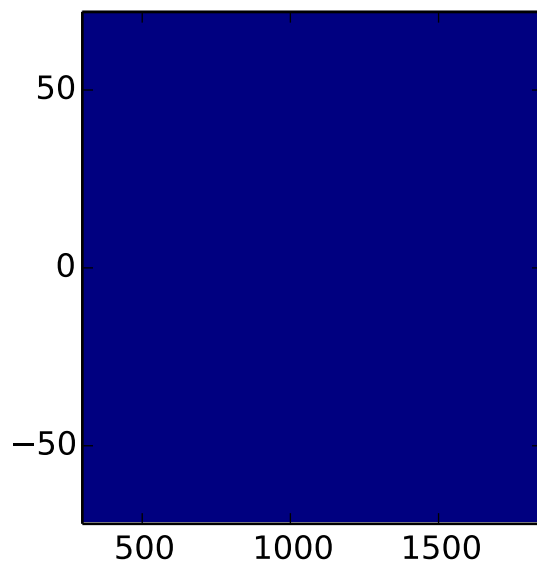
Curvature: -400 : 400



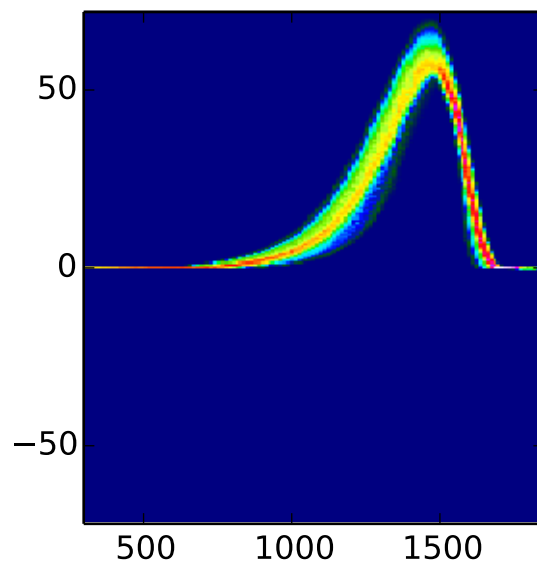
Curvature: 400 : 1200



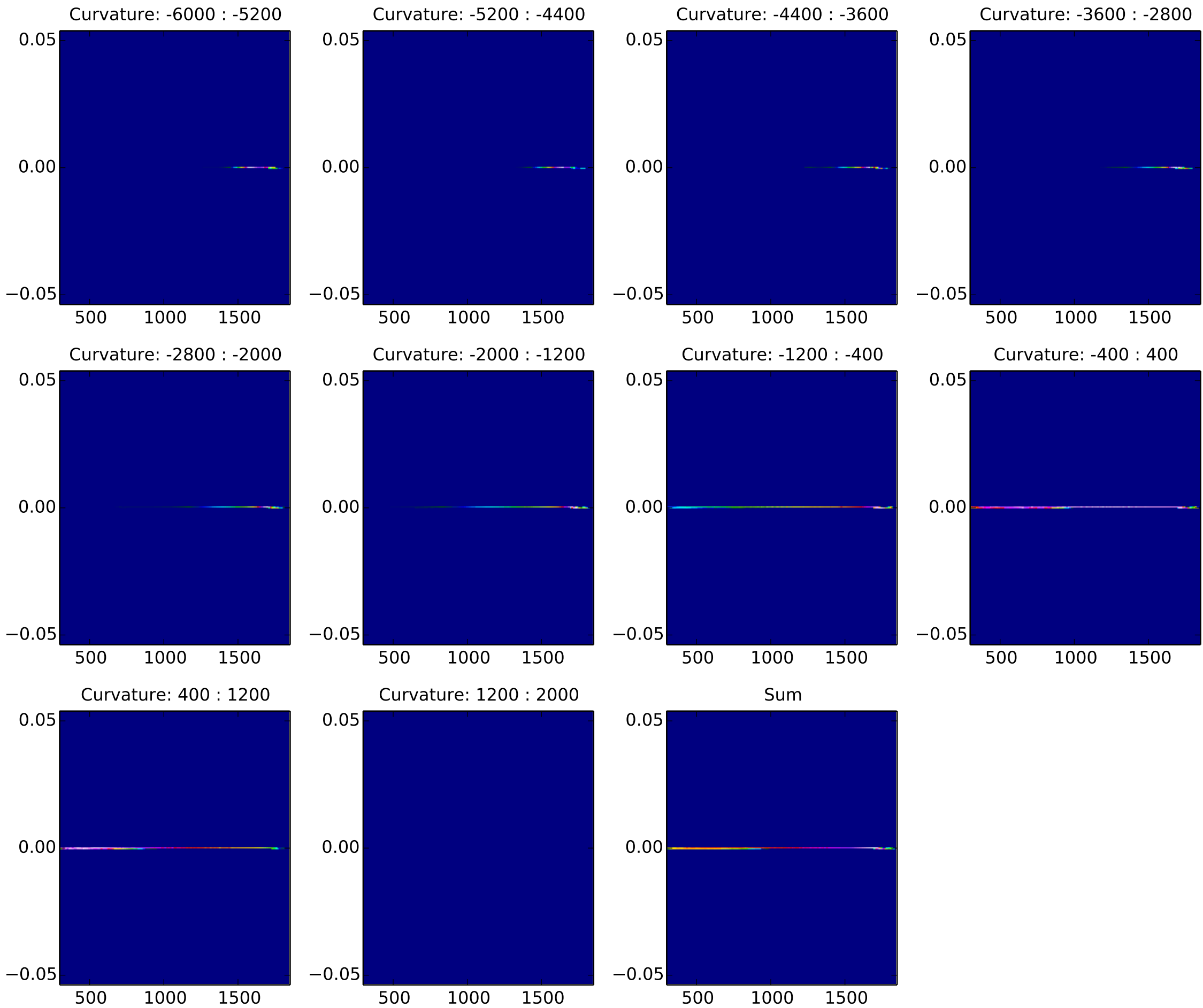
Curvature: 1200 : 2000



Sum

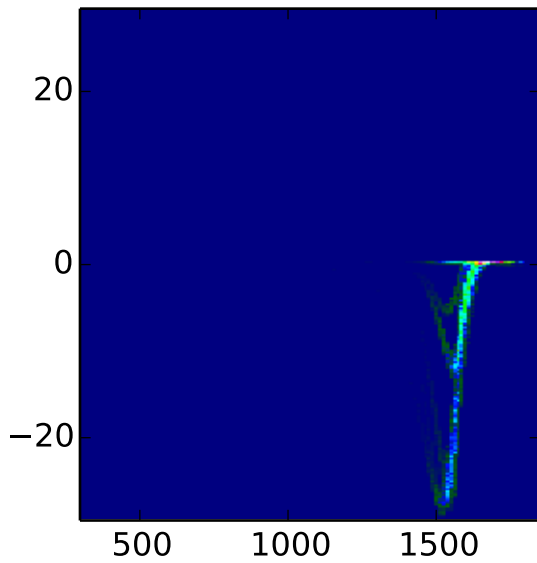


# Edge CH $\Leftrightarrow$ HCCO

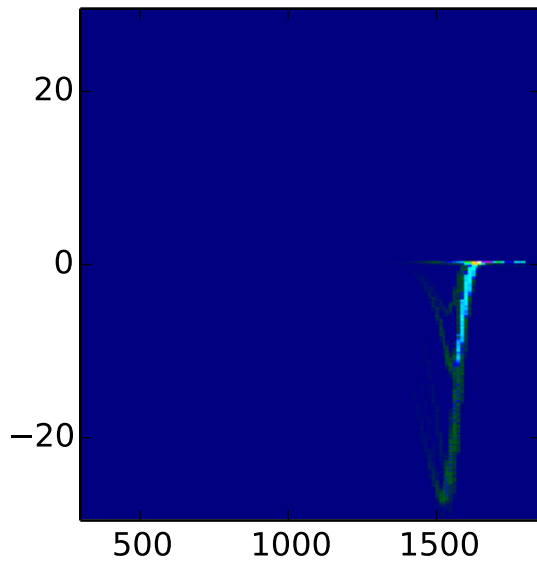


# Edge CO $\rightleftharpoons$ HCCO

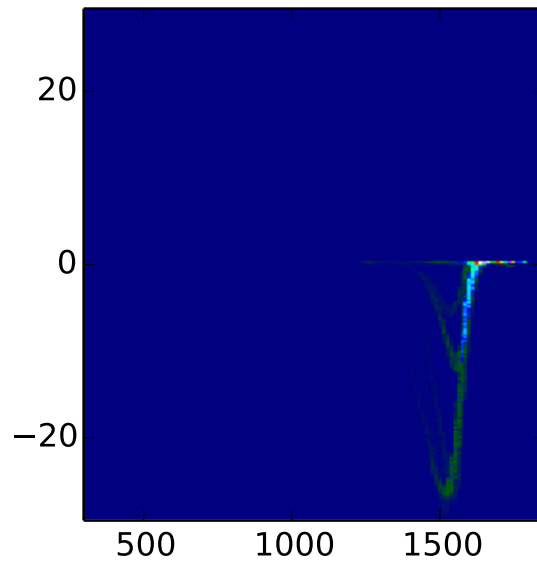
Curvature: -6000 : -5200



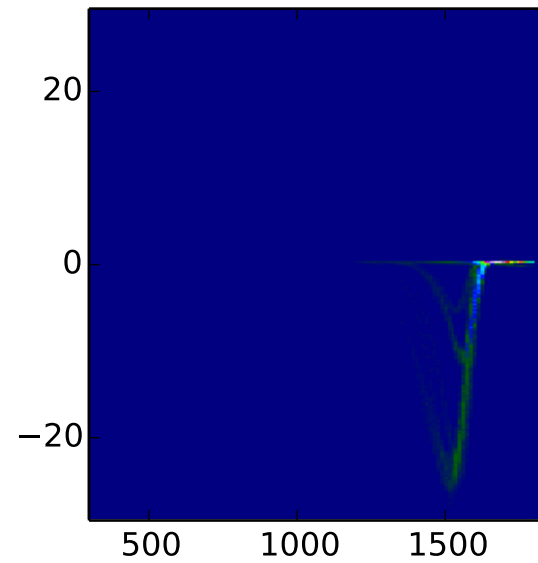
Curvature: -5200 : -4400



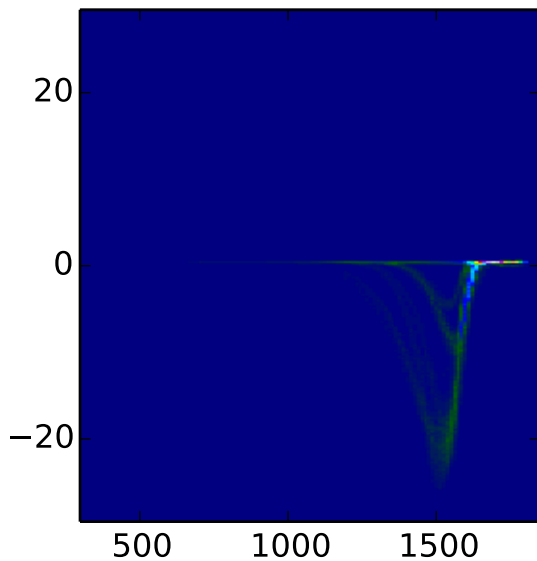
Curvature: -4400 : -3600



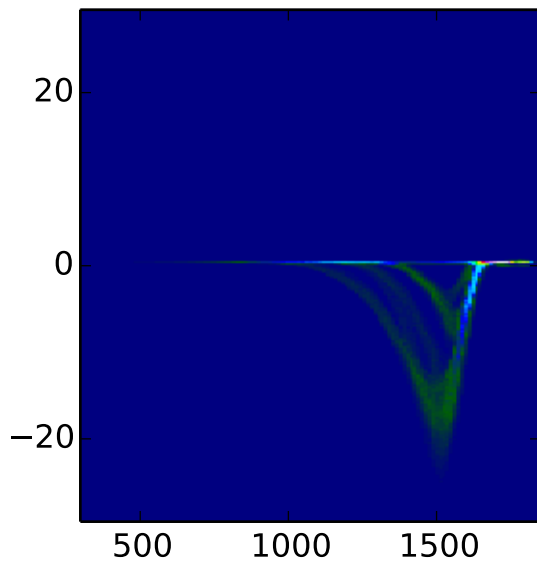
Curvature: -3600 : -2800



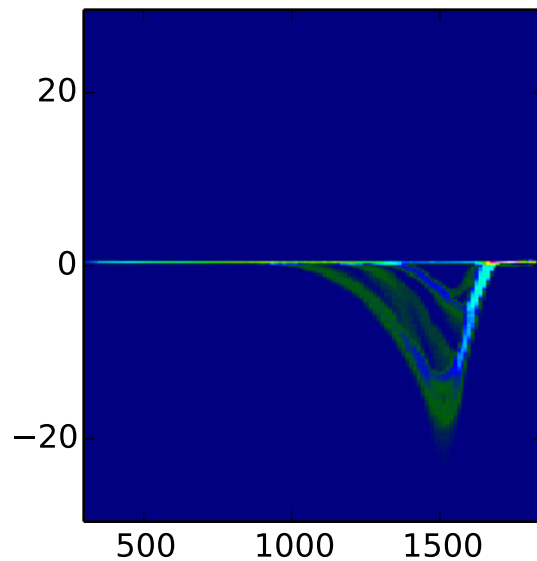
Curvature: -2800 : -2000



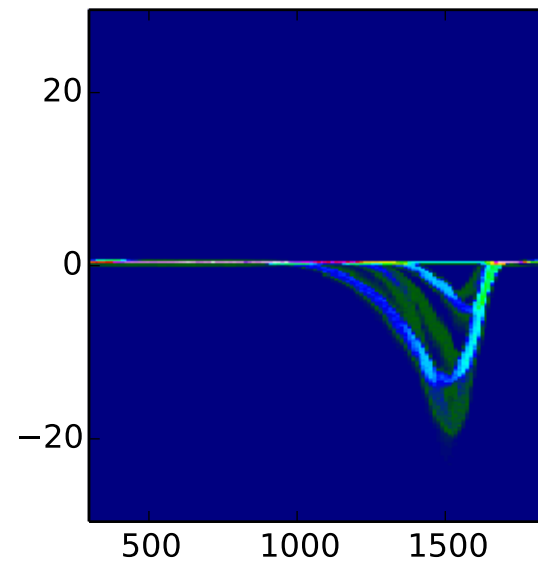
Curvature: -2000 : -1200



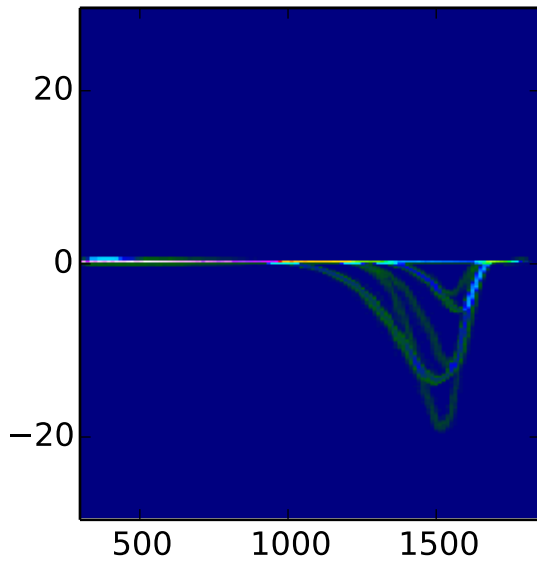
Curvature: -1200 : -400



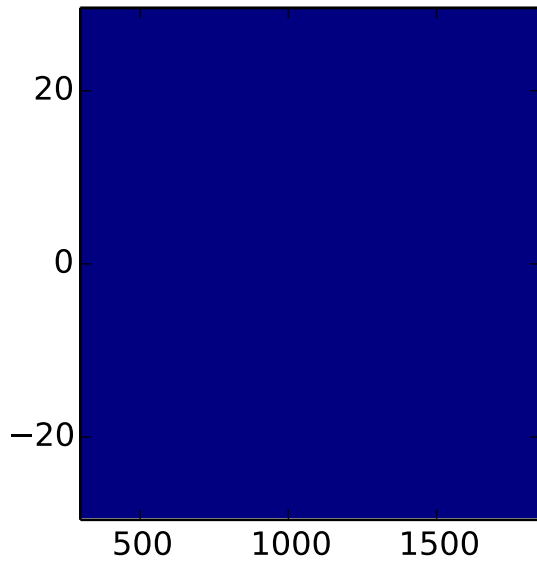
Curvature: -400 : 400



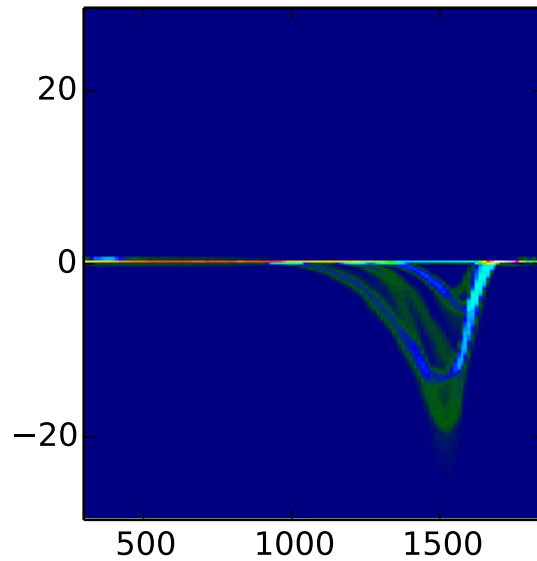
Curvature: 400 : 1200



Curvature: 1200 : 2000



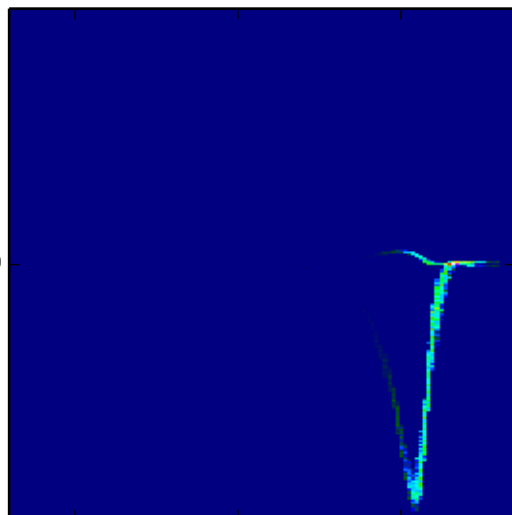
Sum



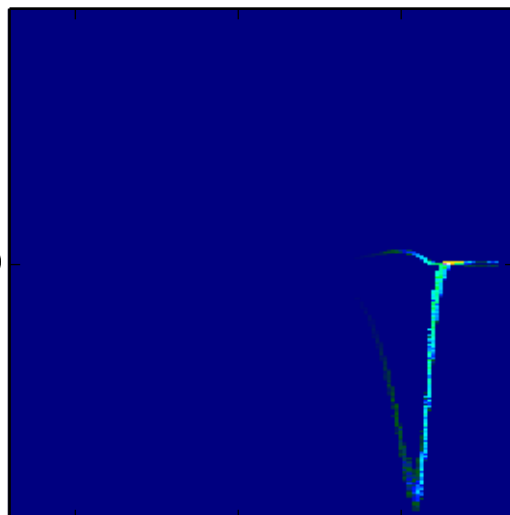


# Edge CH<sub>2</sub> $\rightleftharpoons$ CH<sub>2</sub>CO

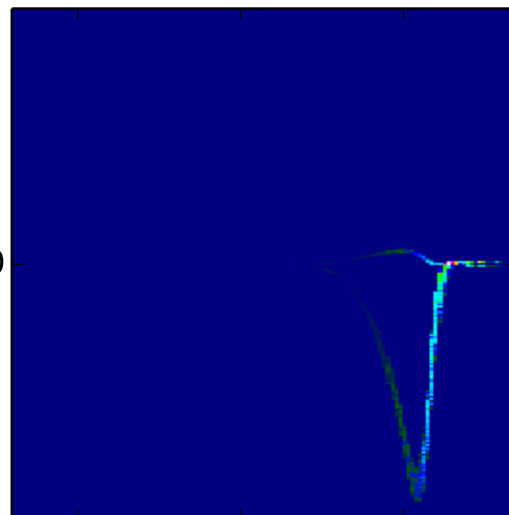
Curvature: -6000 : -5200



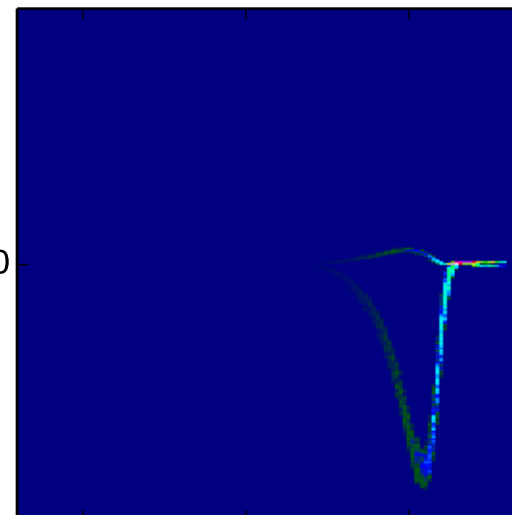
Curvature: -5200 : -4400



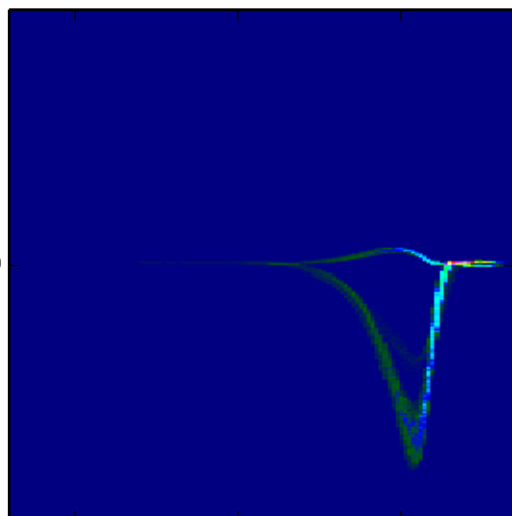
Curvature: -4400 : -3600



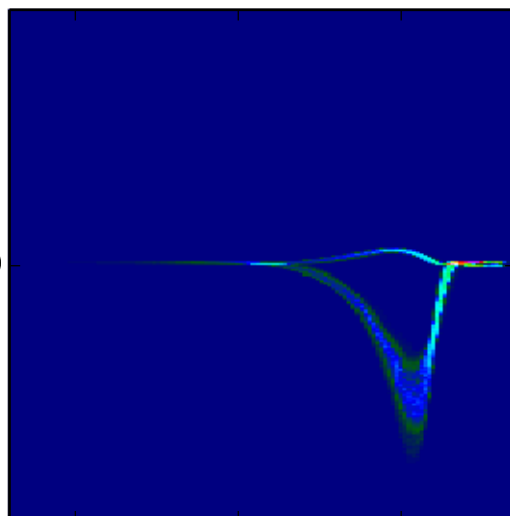
Curvature: -3600 : -2800



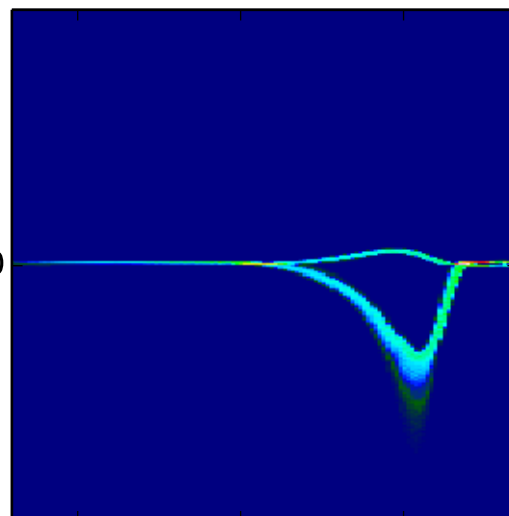
Curvature: -2800 : -2000



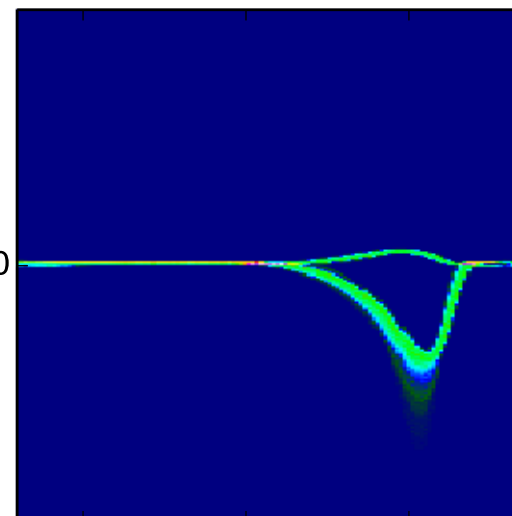
Curvature: -2000 : -1200



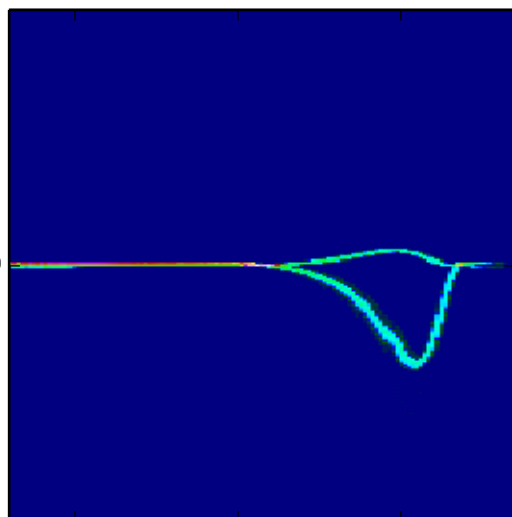
Curvature: -1200 : -400



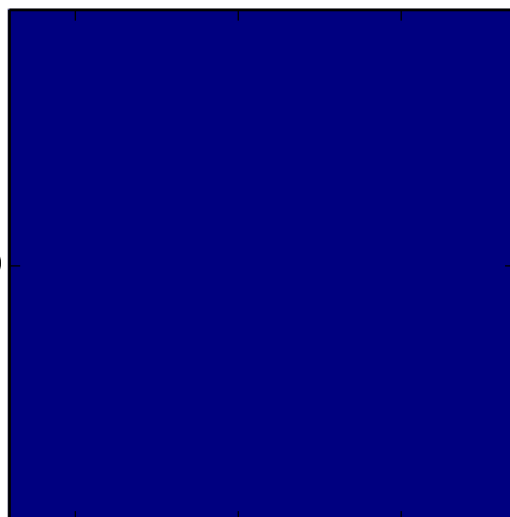
Curvature: -400 : 400



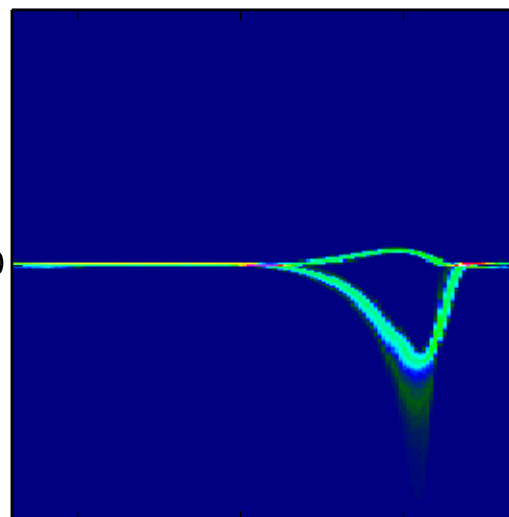
Curvature: 400 : 1200



Curvature: 1200 : 2000

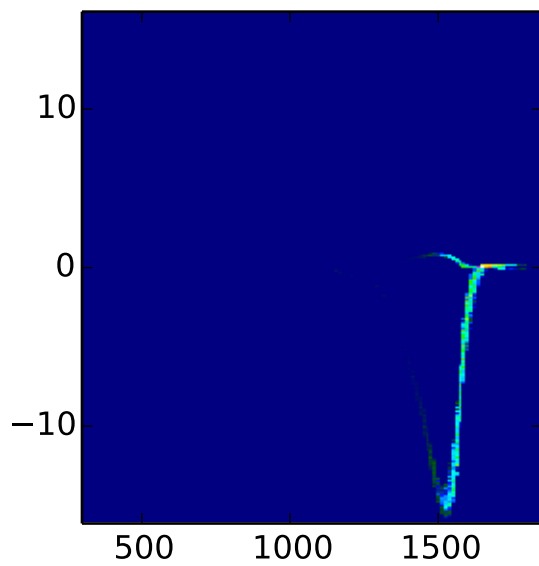


Sum

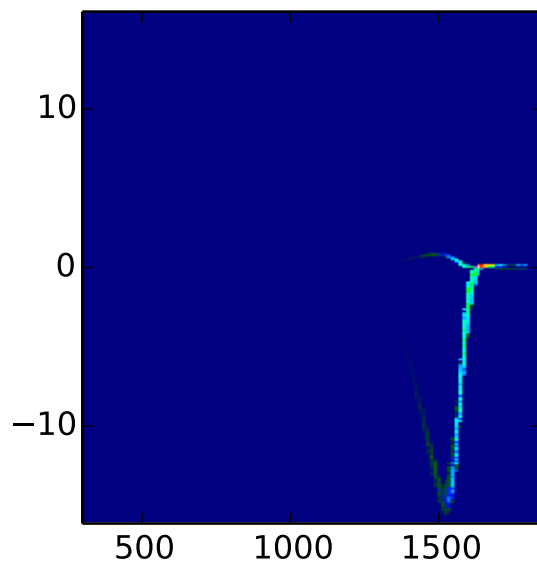


# Edge CO $\rightleftharpoons$ CH<sub>2</sub>CO

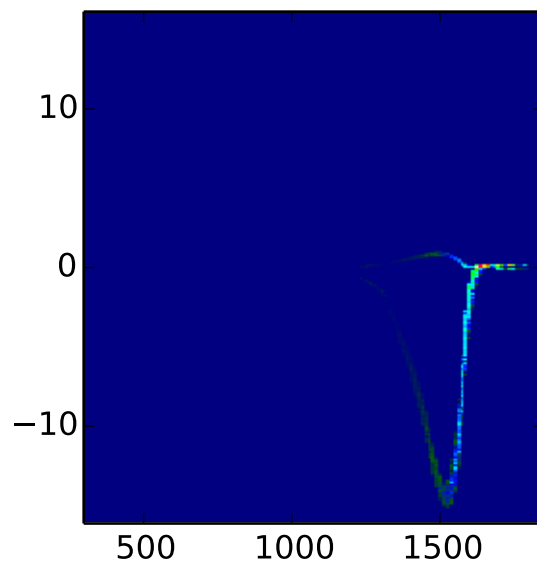
Curvature: -6000 : -5200



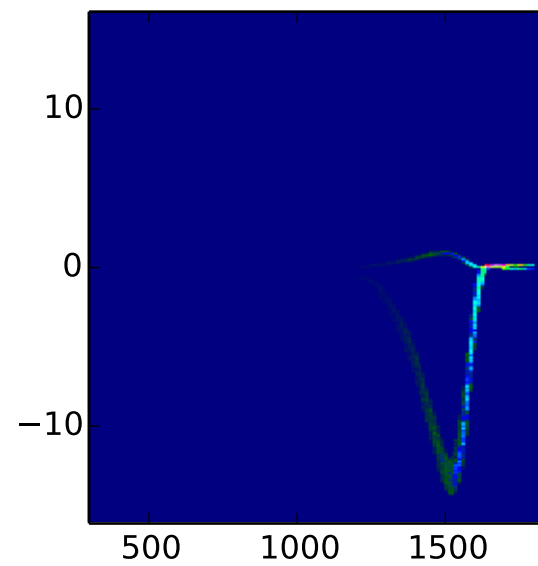
Curvature: -5200 : -4400



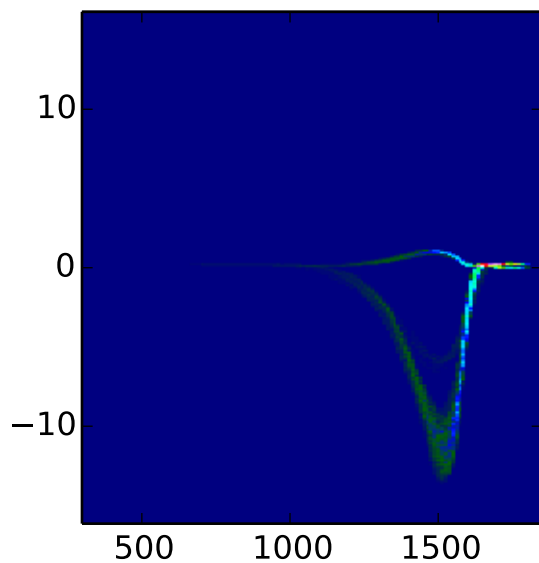
Curvature: -4400 : -3600



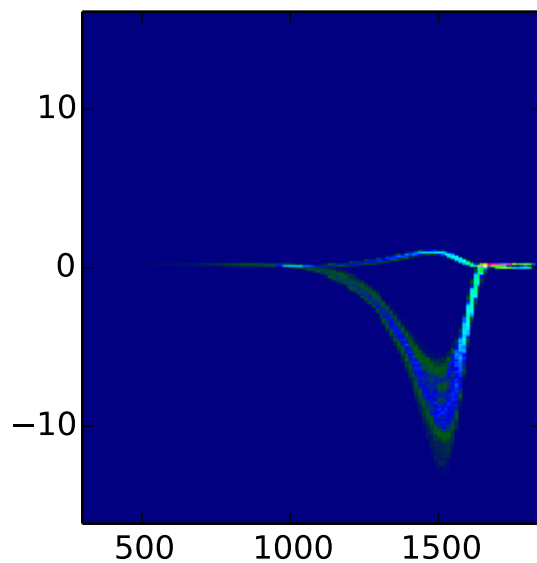
Curvature: -3600 : -2800



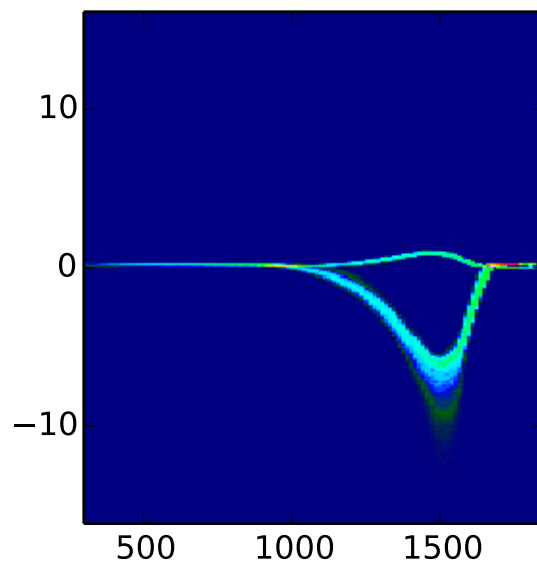
Curvature: -2800 : -2000



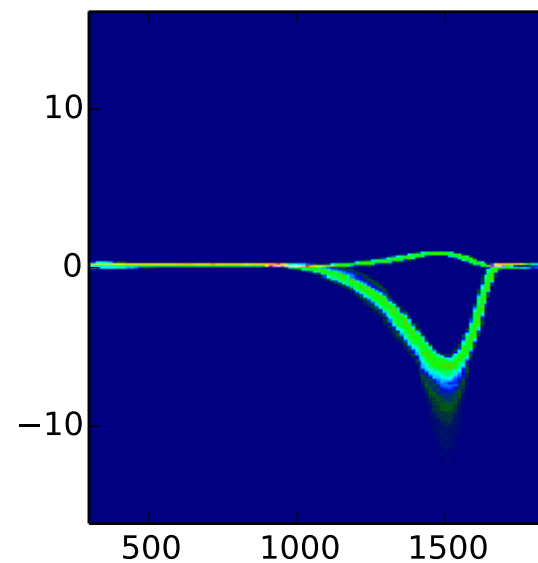
Curvature: -2000 : -1200



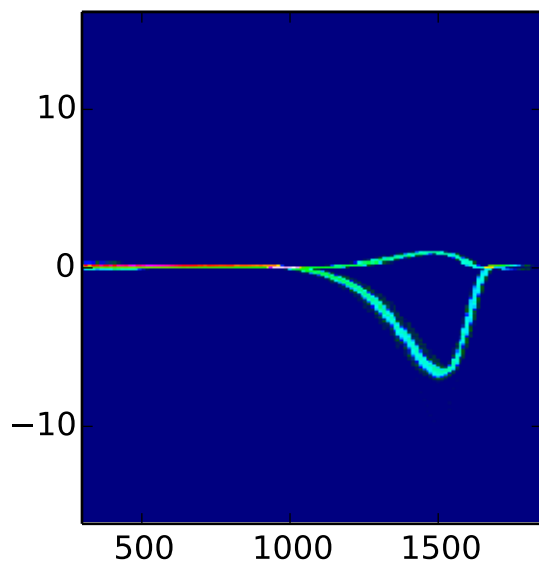
Curvature: -1200 : -400



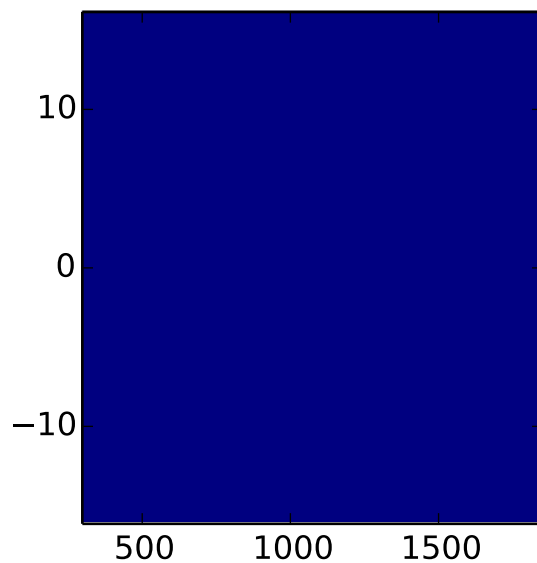
Curvature: -400 : 400



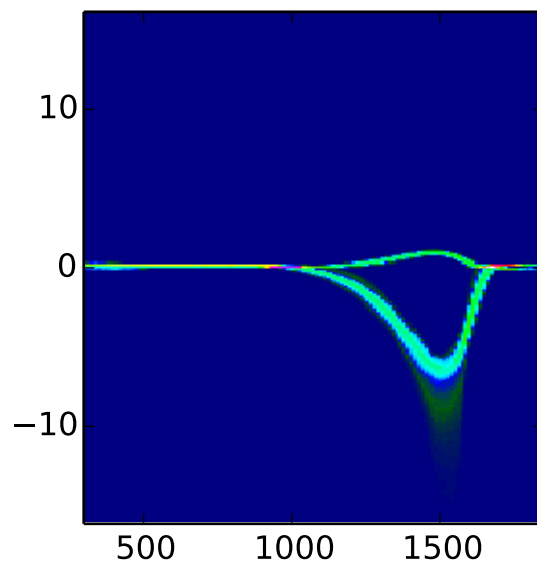
Curvature: 400 : 1200



Curvature: 1200 : 2000

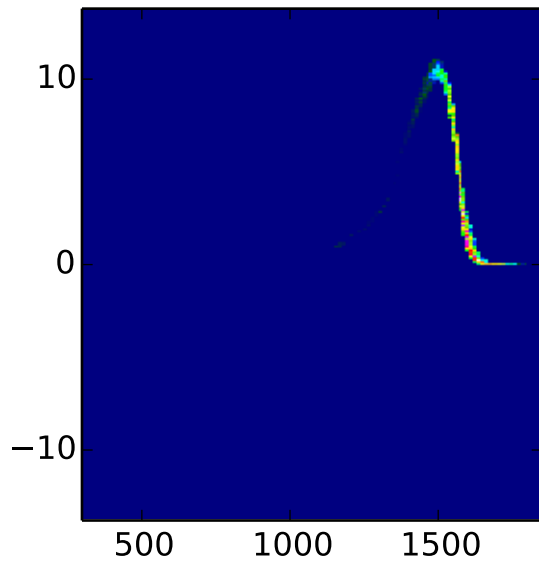


Sum

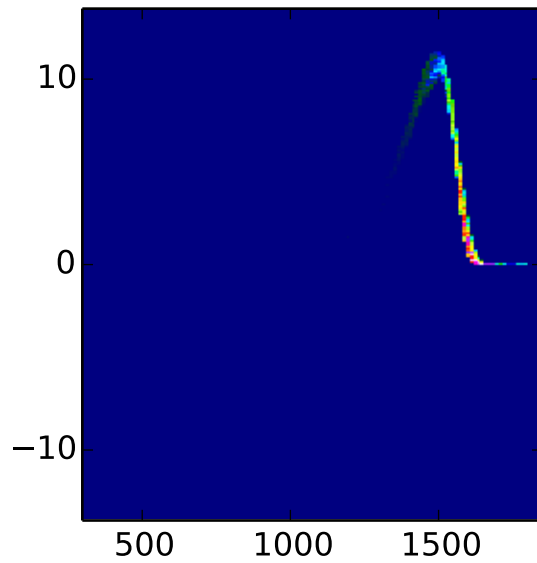


# Edge CH<sub>2</sub>(S) $\rightleftharpoons$ CH<sub>3</sub>OH

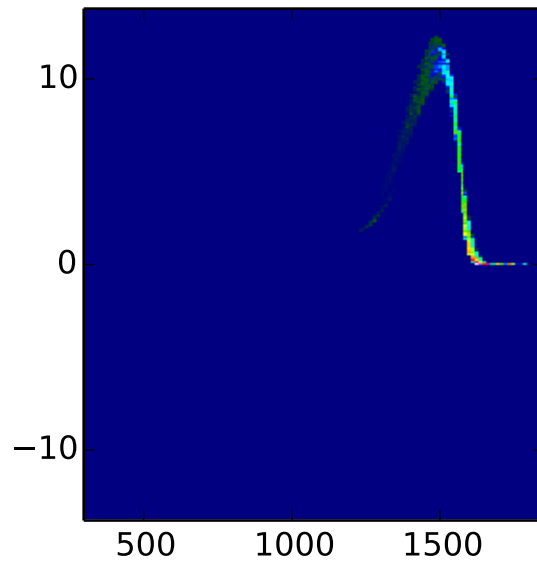
Curvature: -6000 : -5200



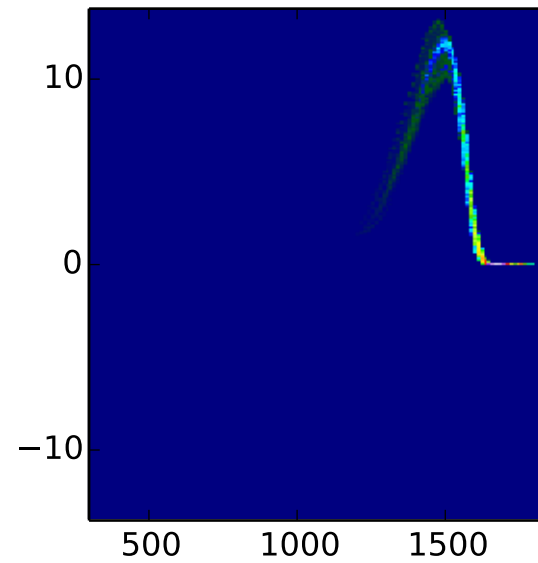
Curvature: -5200 : -4400



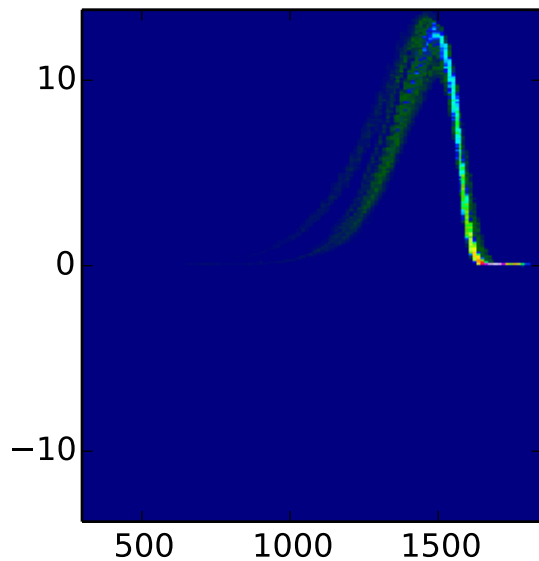
Curvature: -4400 : -3600



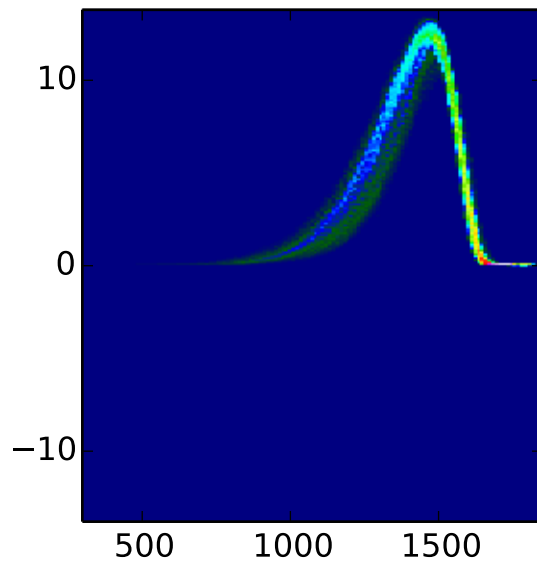
Curvature: -3600 : -2800



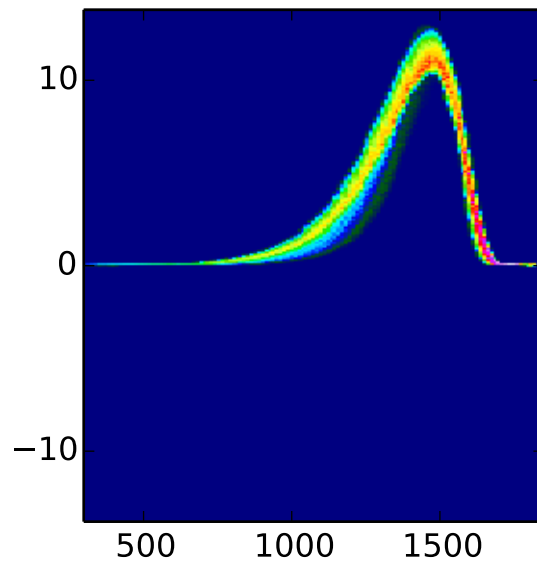
Curvature: -2800 : -2000



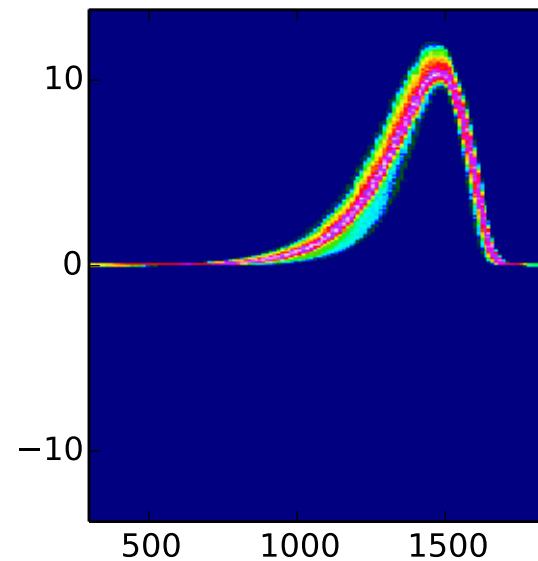
Curvature: -2000 : -1200



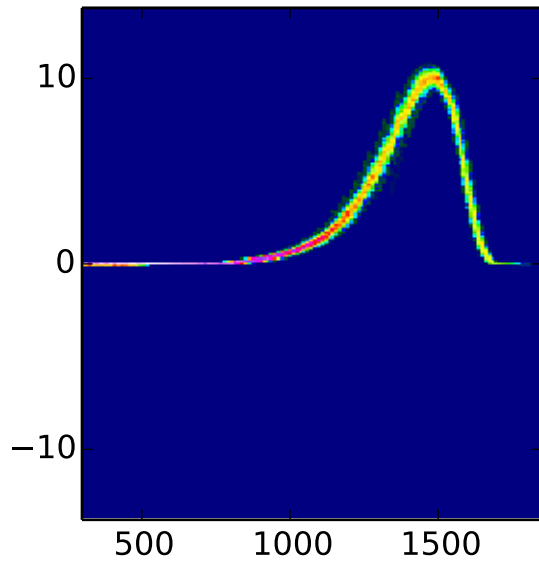
Curvature: -1200 : -400



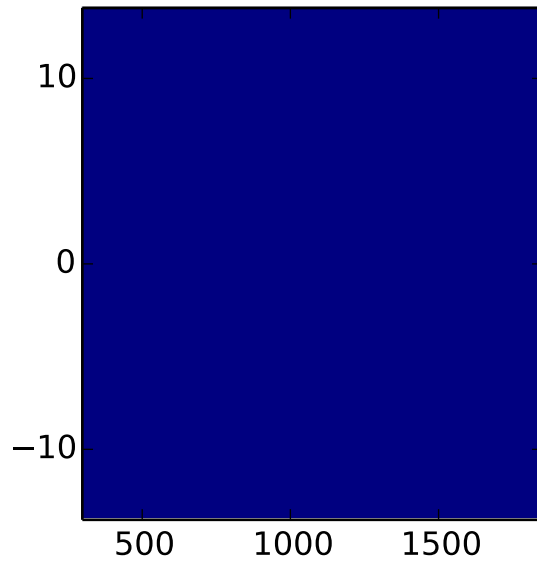
Curvature: -400 : 400



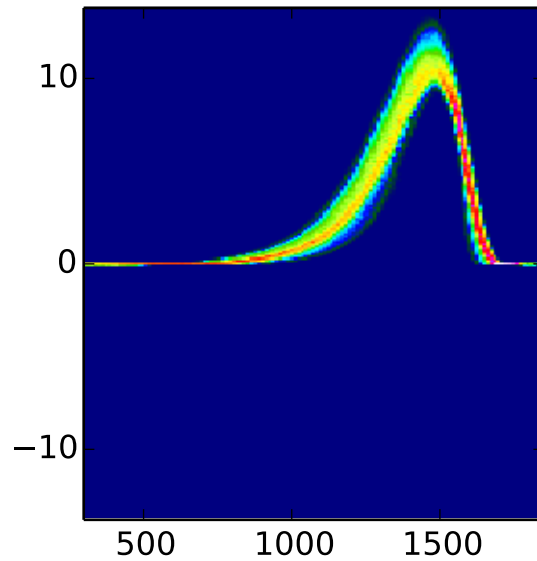
Curvature: 400 : 1200



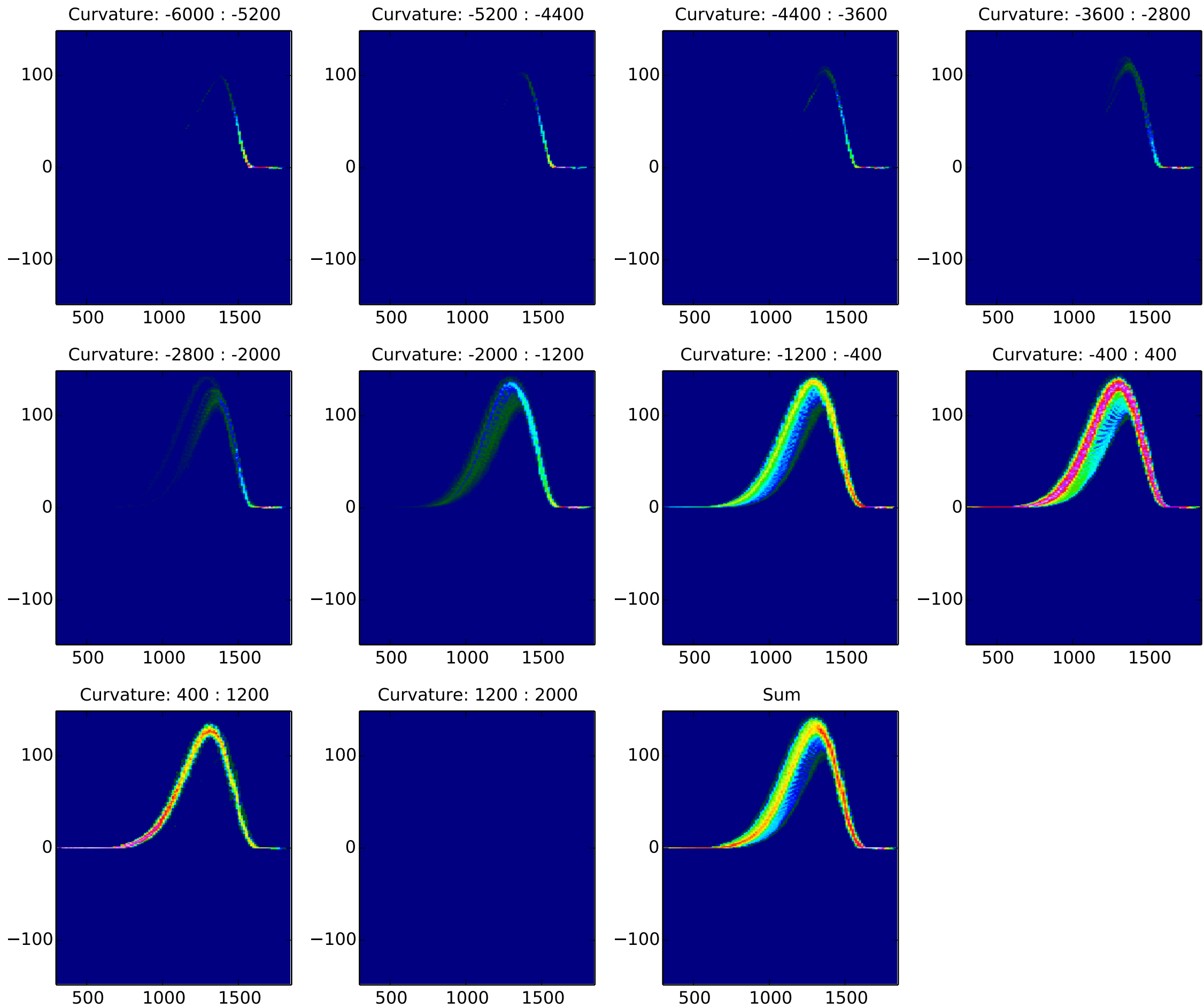
Curvature: 1200 : 2000



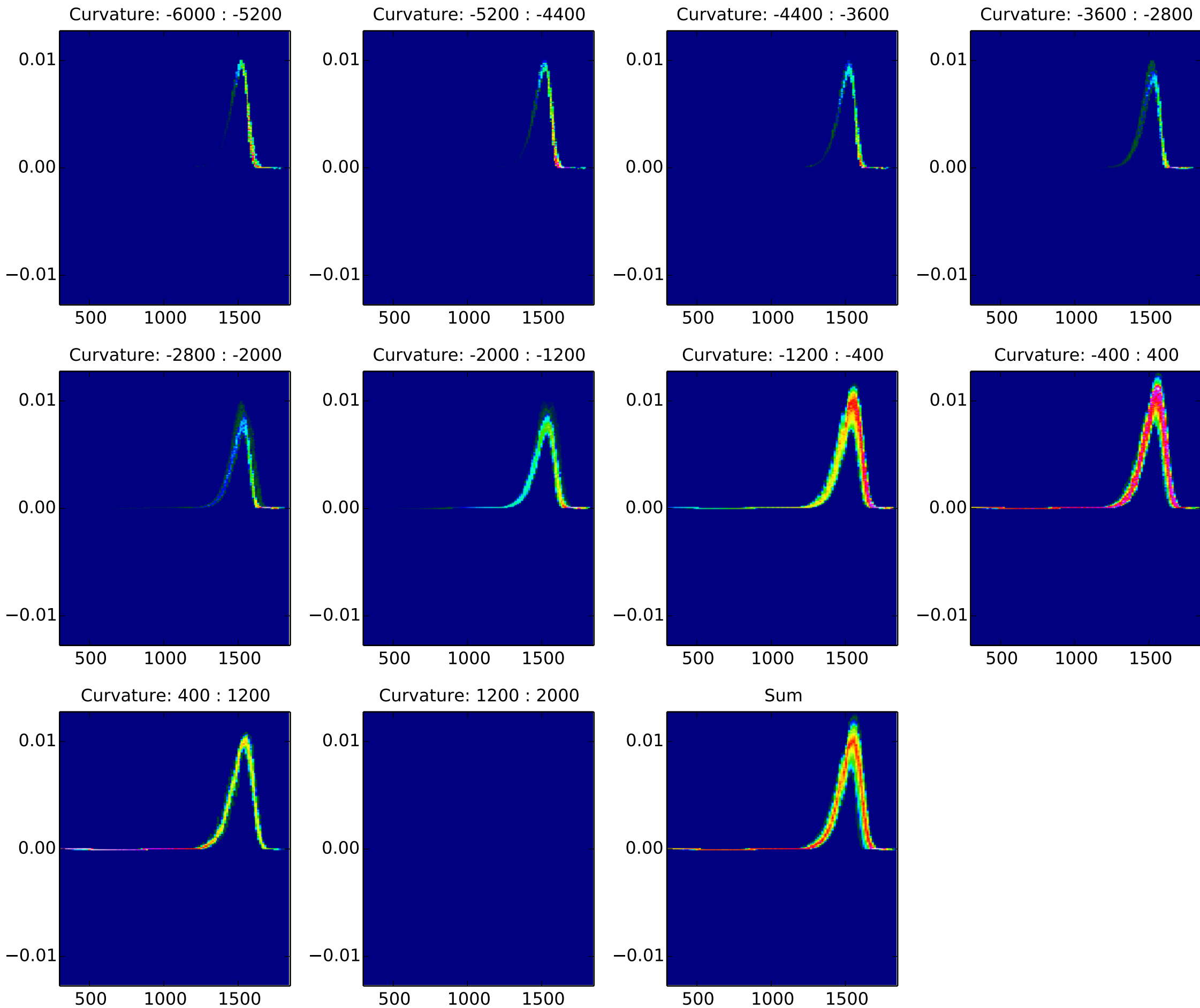
Sum



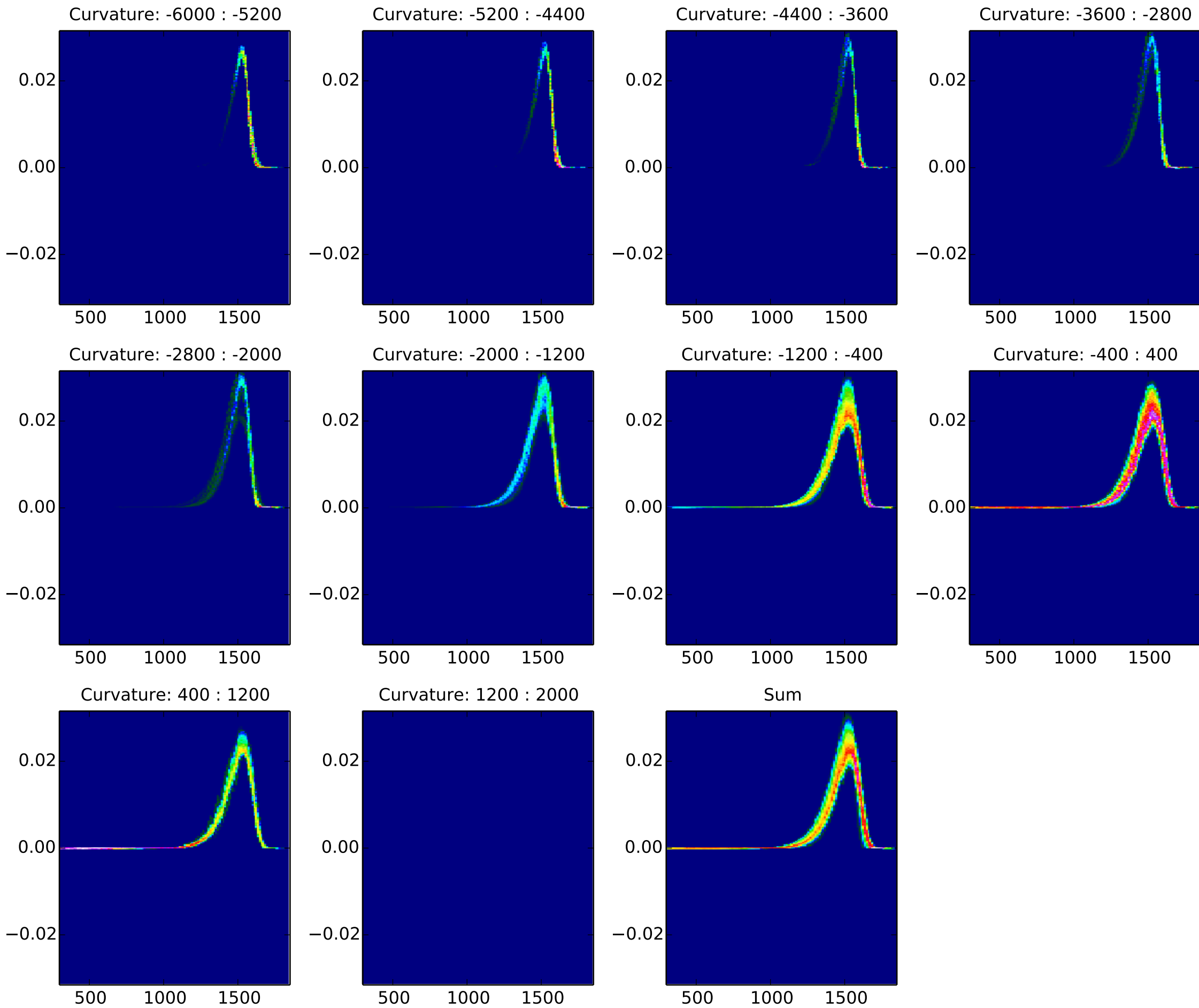
# Edge CH3 $\rightleftharpoons$ C2H6



# Edge C2H4 $\rightleftharpoons$ C2H2

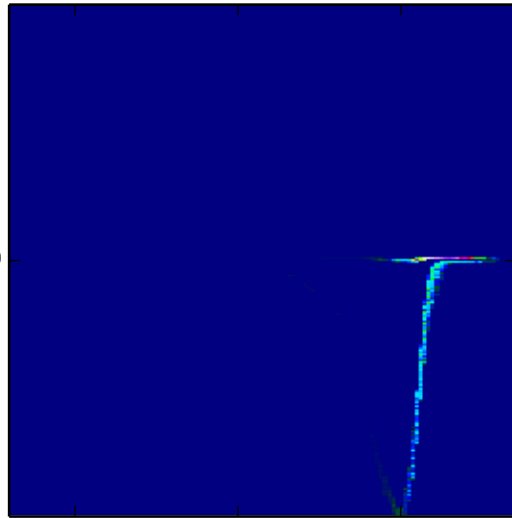


# Edge CH $\rightleftharpoons$ CH3

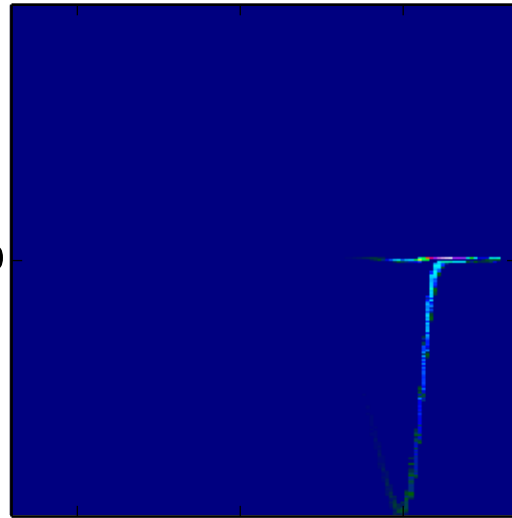


# Edge $\text{CH}_2\text{CO} \rightleftharpoons \text{CH}_2\text{CHO}$

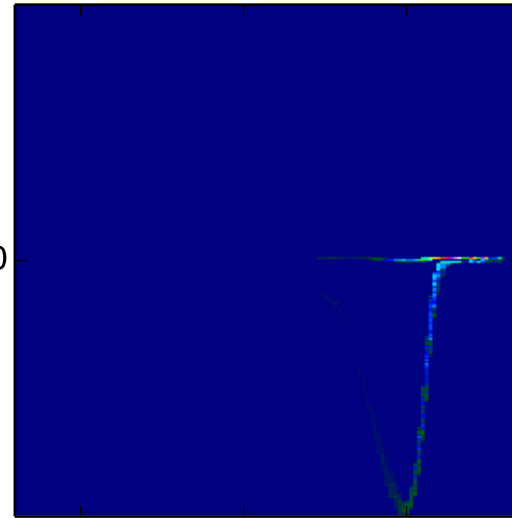
Curvature: -6000 : -5200



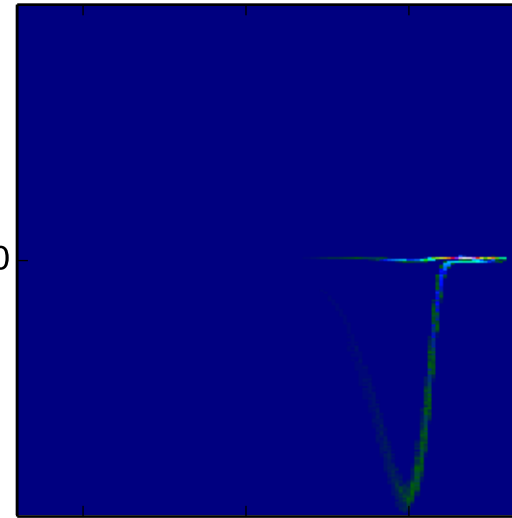
Curvature: -5200 : -4400



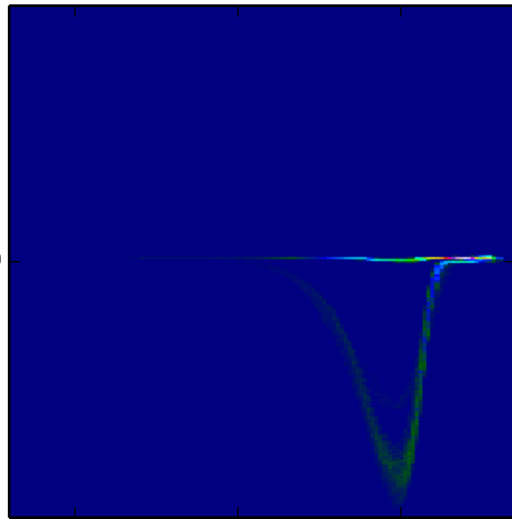
Curvature: -4400 : -3600



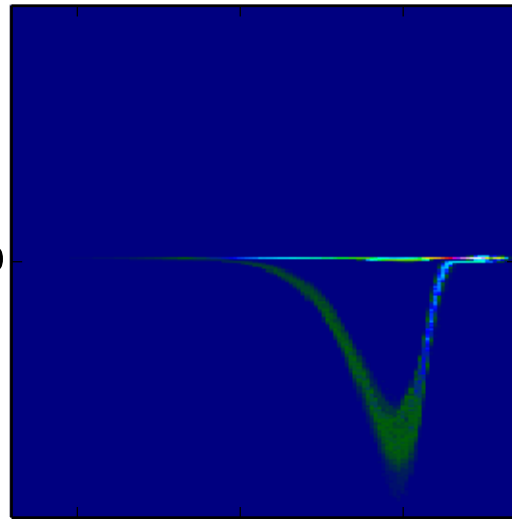
Curvature: -3600 : -2800



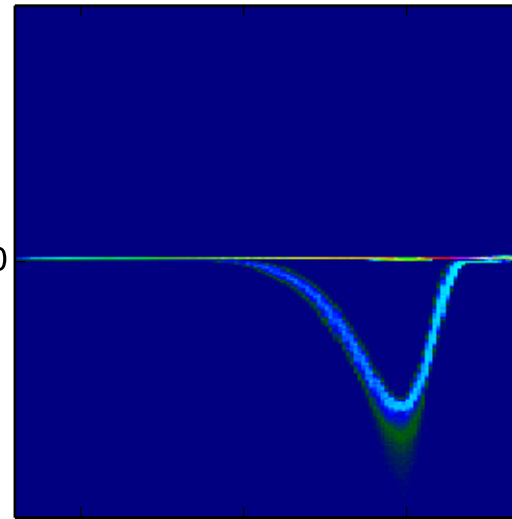
Curvature: -2800 : -2000



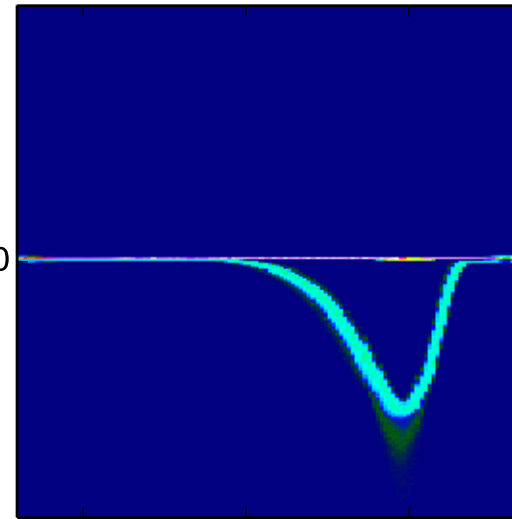
Curvature: -2000 : -1200



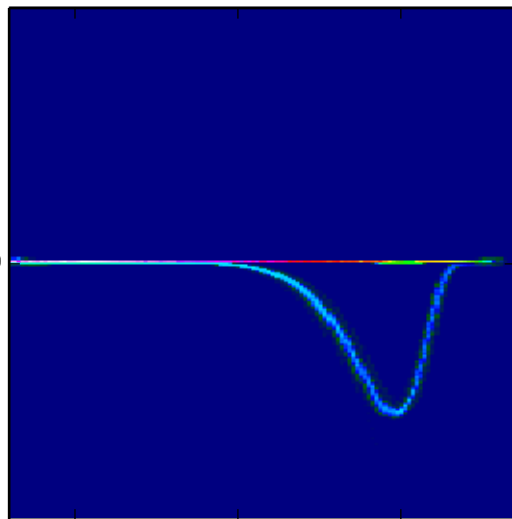
Curvature: -1200 : -400



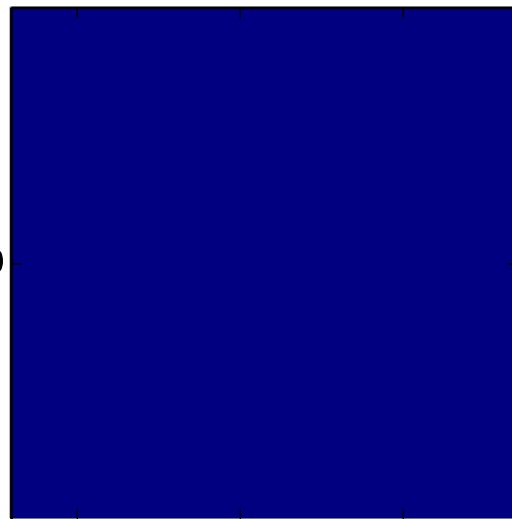
Curvature: -400 : 400



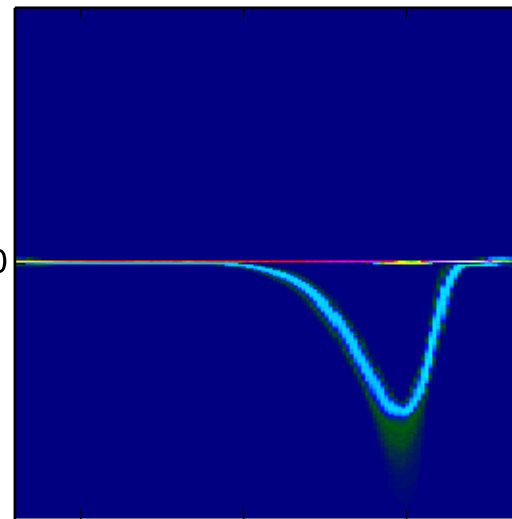
Curvature: 400 : 1200



Curvature: 1200 : 2000

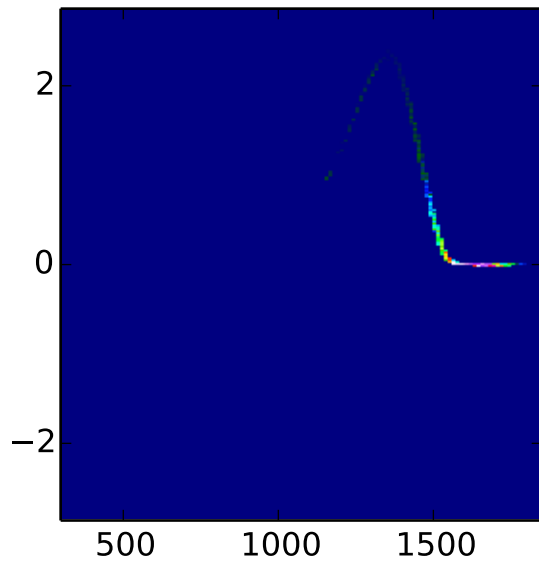


Sum

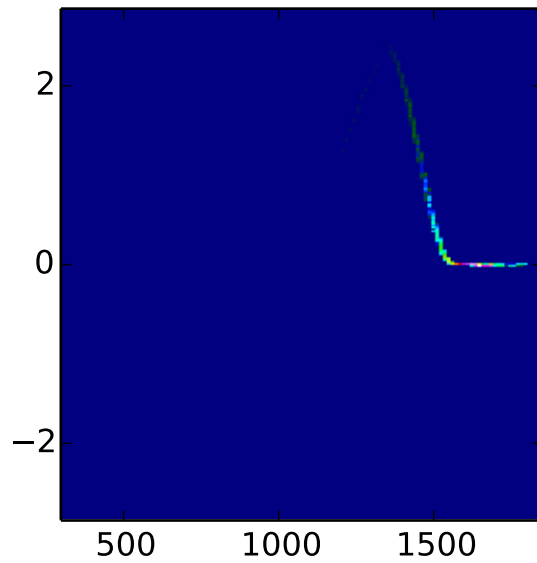


# Edge C2H5 $\rightleftharpoons$ C3H8

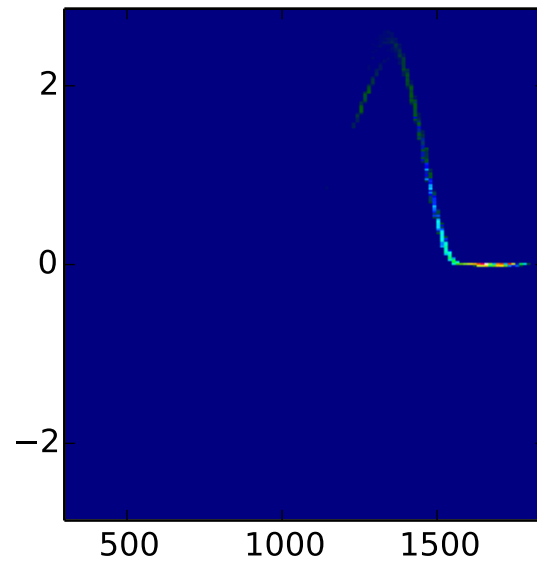
Curvature: -6000 : -5200



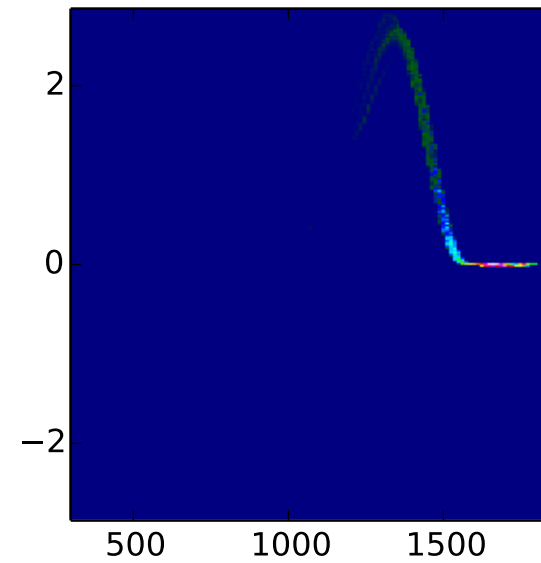
Curvature: -5200 : -4400



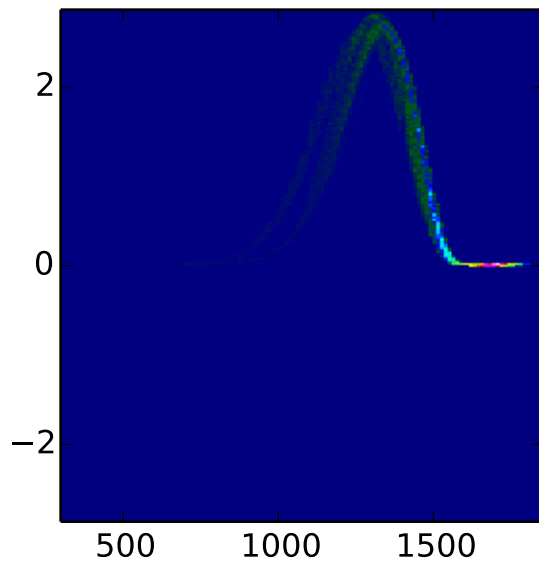
Curvature: -4400 : -3600



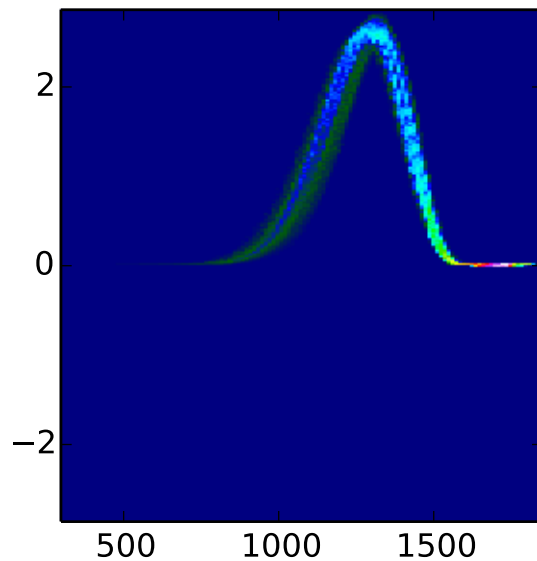
Curvature: -3600 : -2800



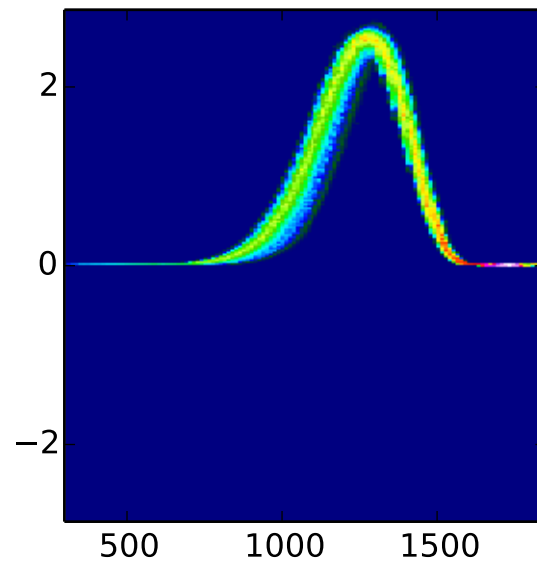
Curvature: -2800 : -2000



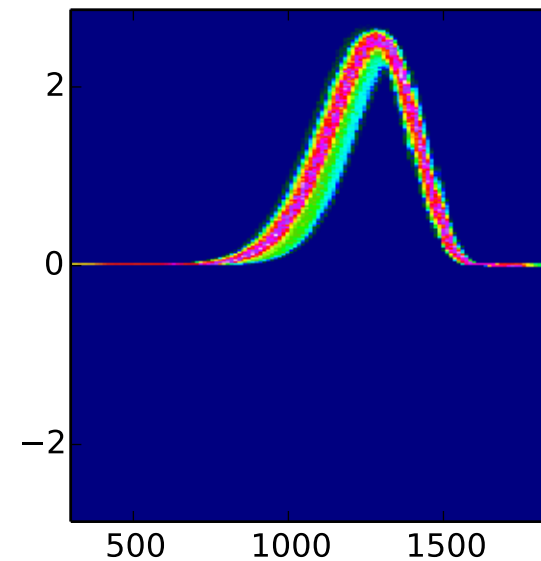
Curvature: -2000 : -1200



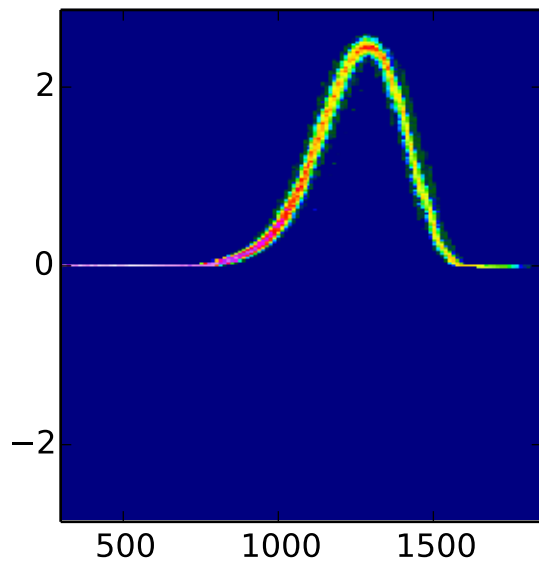
Curvature: -1200 : -400



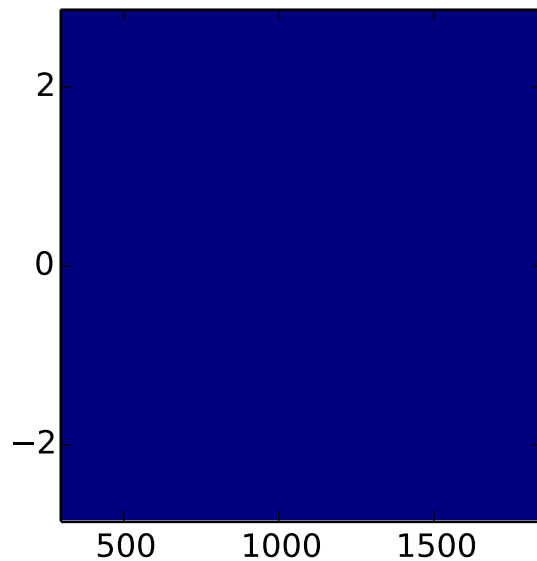
Curvature: -400 : 400



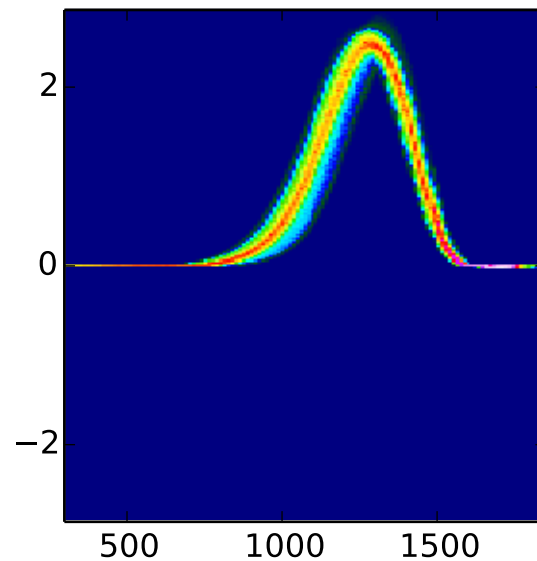
Curvature: 400 : 1200



Curvature: 1200 : 2000



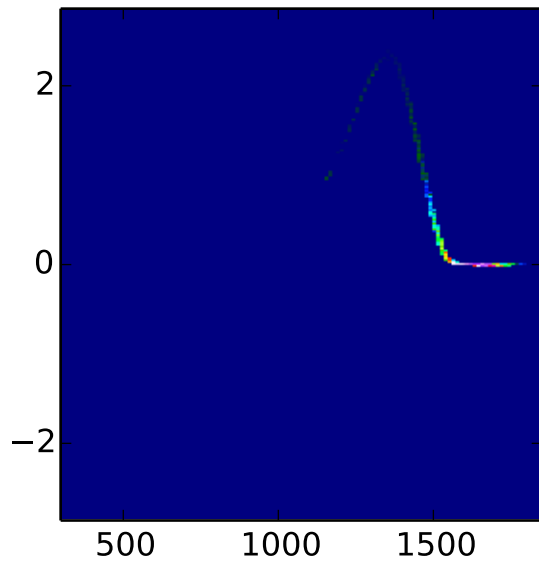
Sum



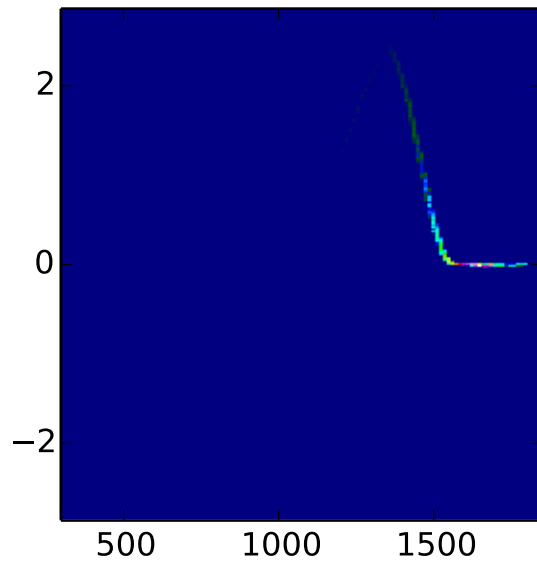


# Edge CH3 $\rightleftharpoons$ C3H8

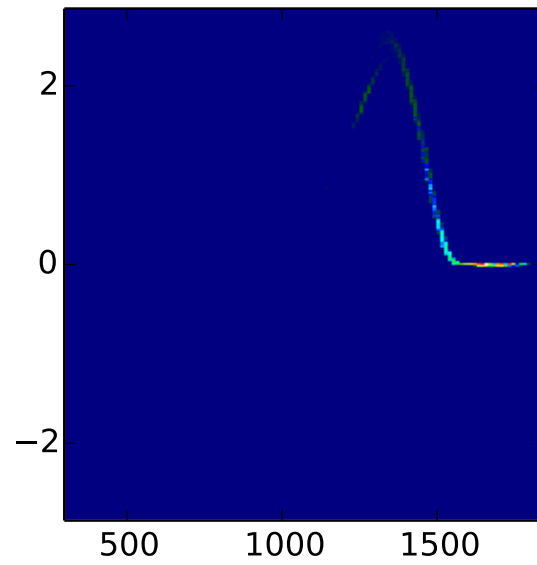
Curvature: -6000 : -5200



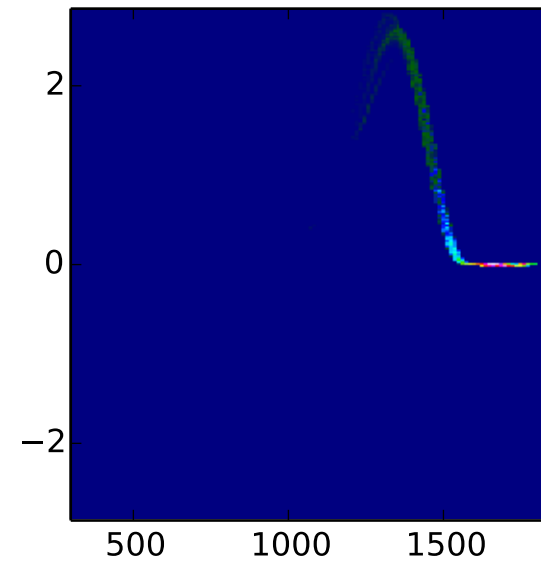
Curvature: -5200 : -4400



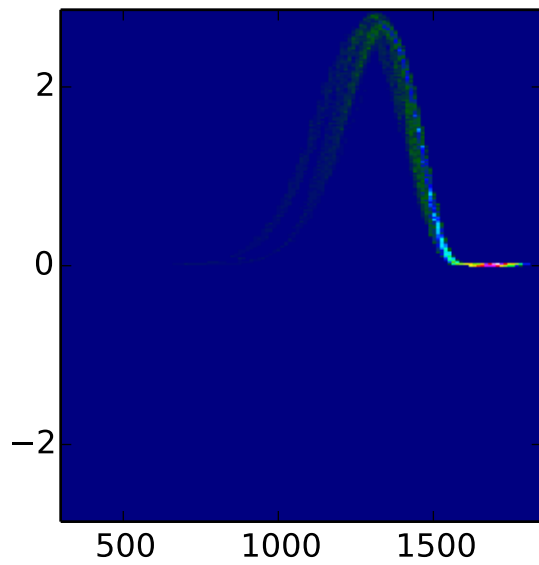
Curvature: -4400 : -3600



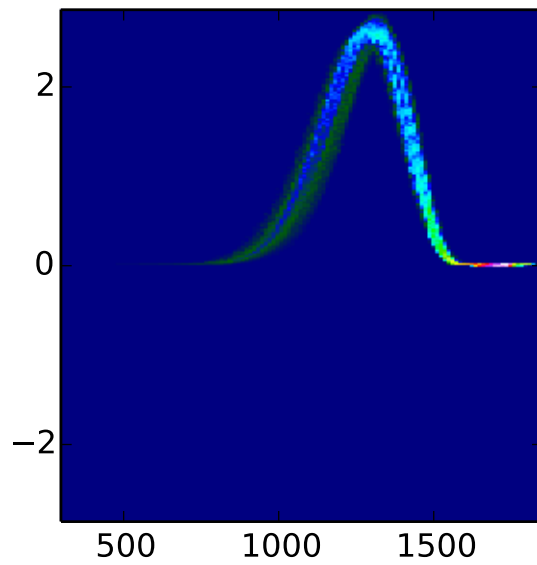
Curvature: -3600 : -2800



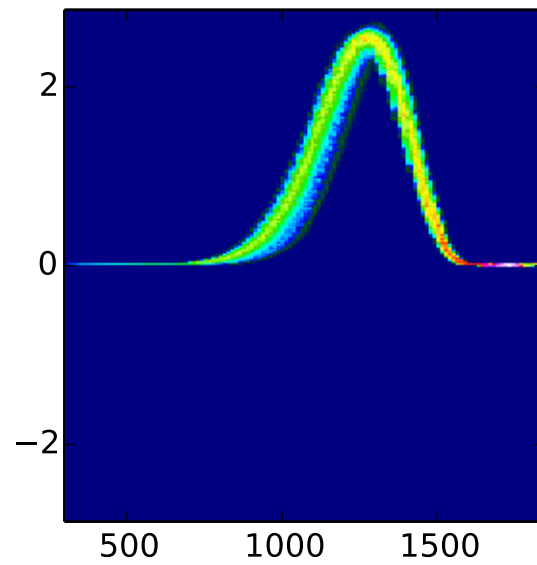
Curvature: -2800 : -2000



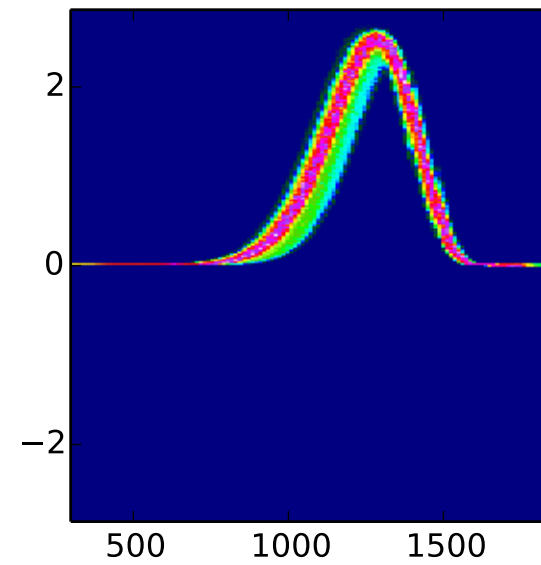
Curvature: -2000 : -1200



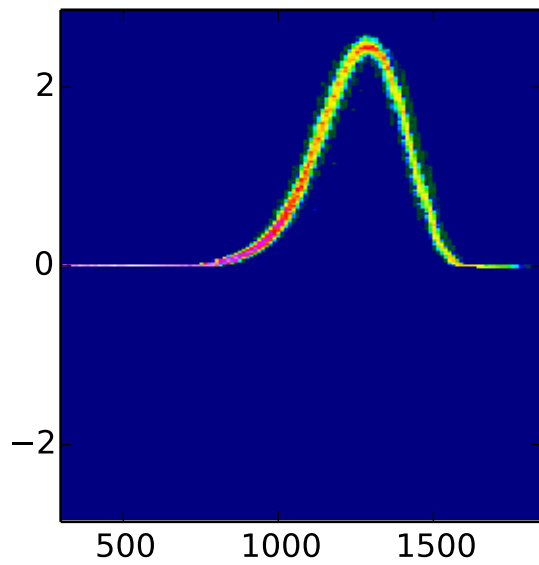
Curvature: -1200 : -400



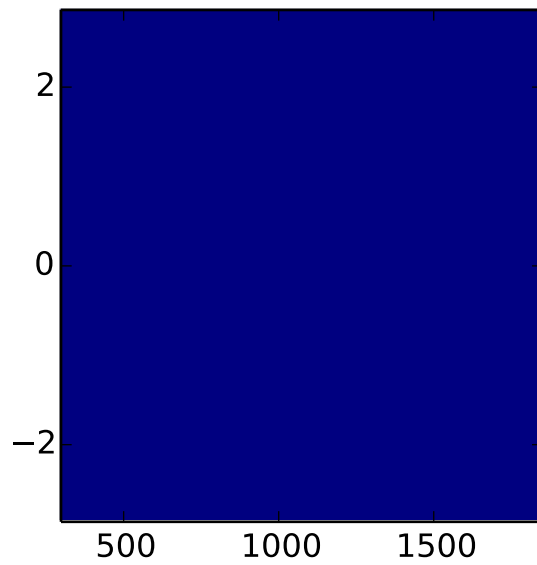
Curvature: -400 : 400



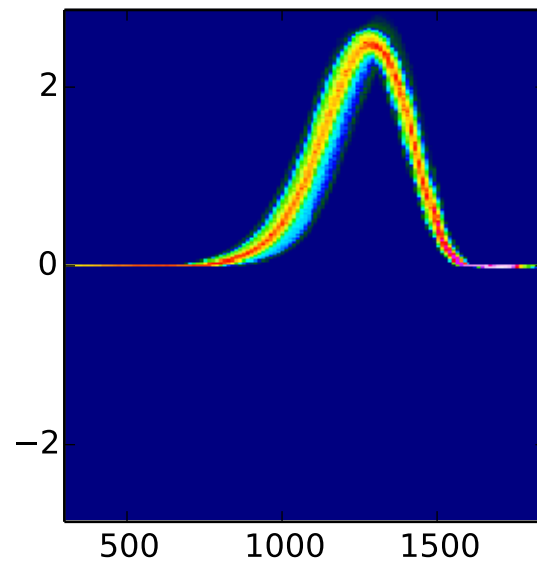
Curvature: 400 : 1200



Curvature: 1200 : 2000

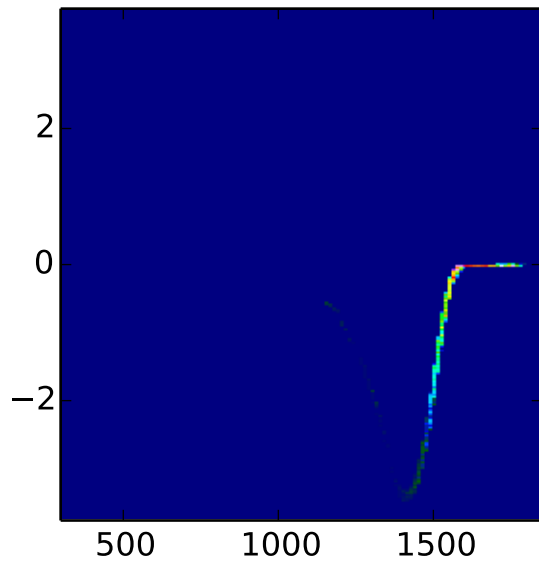


Sum

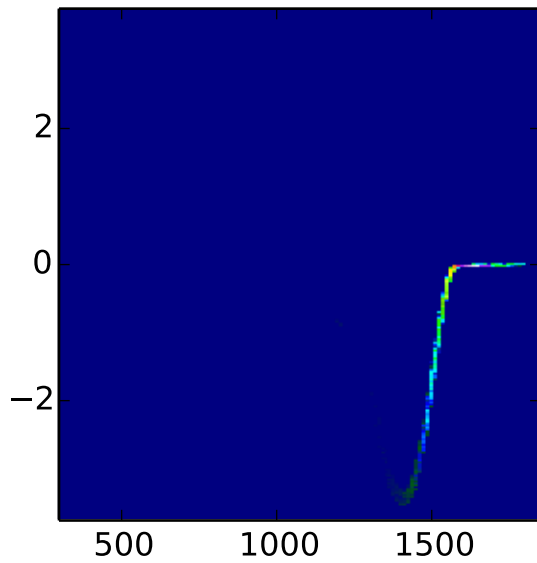


# Edge C2H4 $\rightleftharpoons$ C3H7

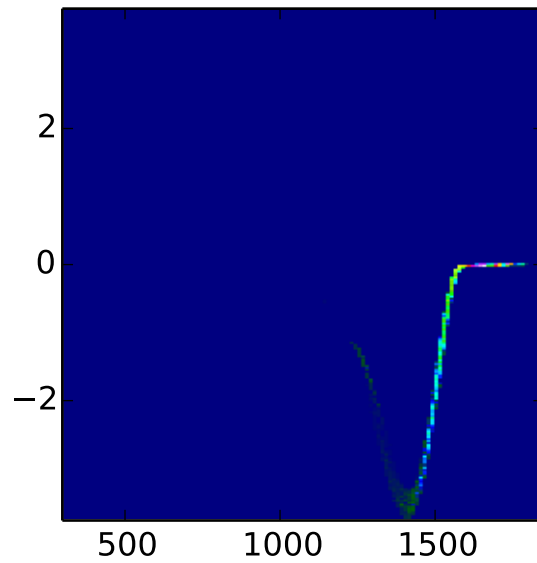
Curvature: -6000 : -5200



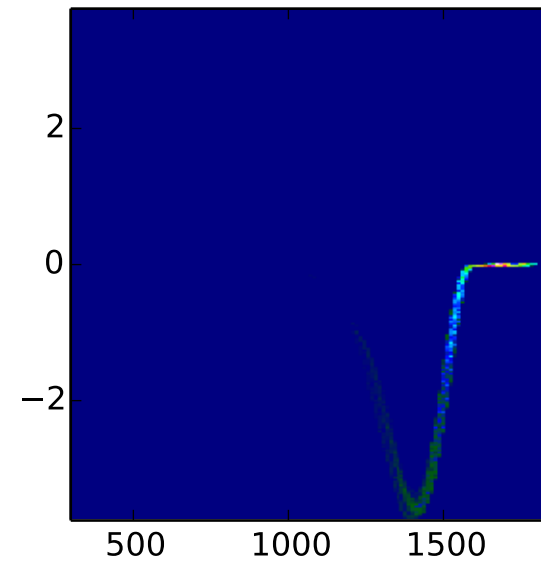
Curvature: -5200 : -4400



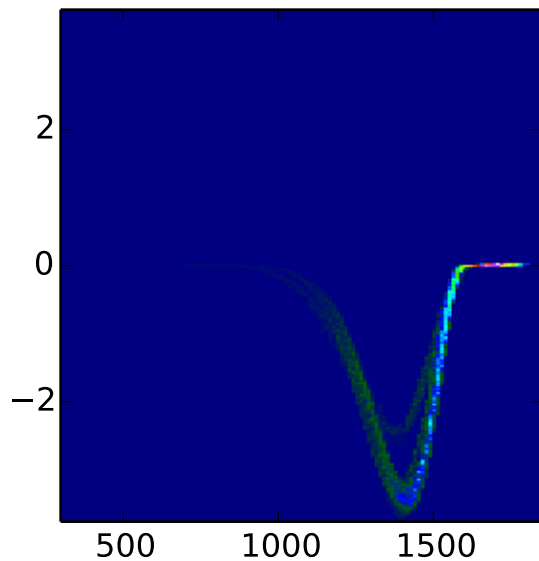
Curvature: -4400 : -3600



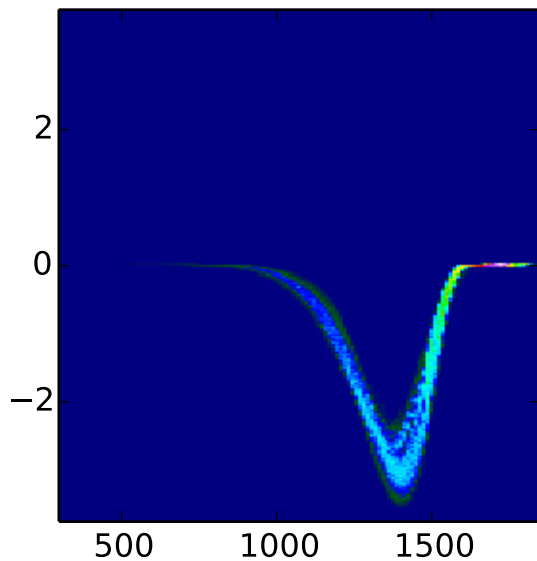
Curvature: -3600 : -2800



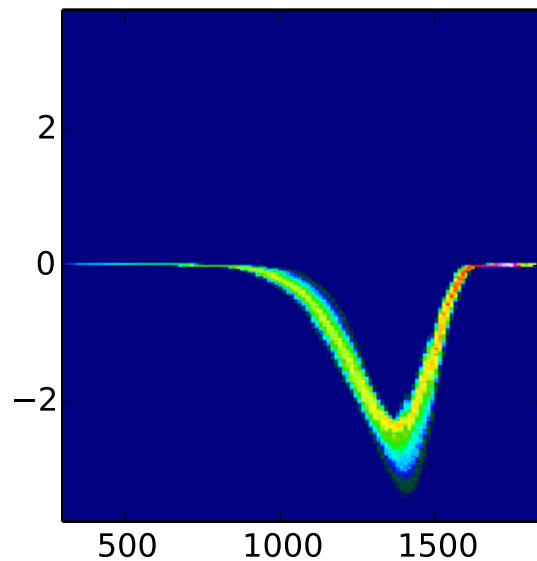
Curvature: -2800 : -2000



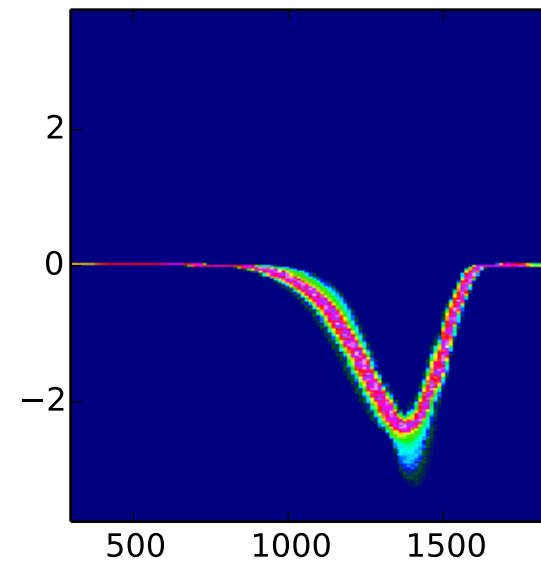
Curvature: -2000 : -1200



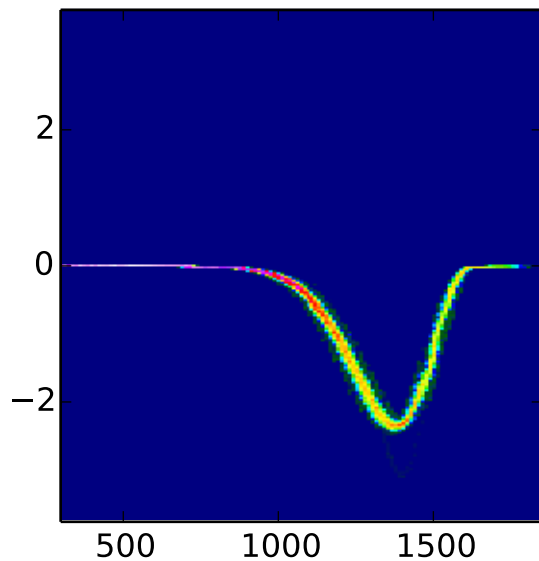
Curvature: -1200 : -400



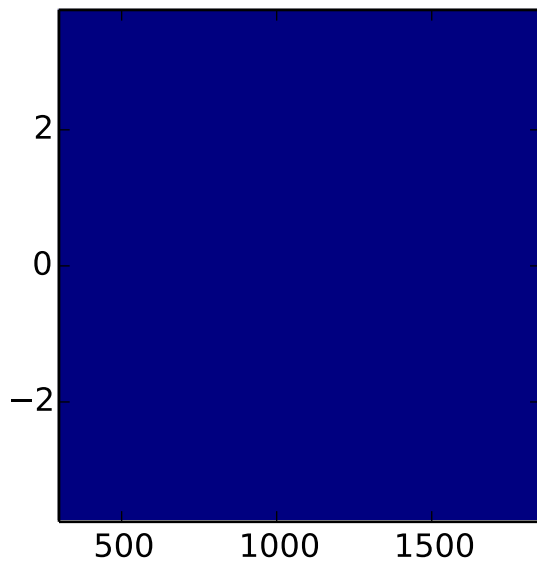
Curvature: -400 : 400



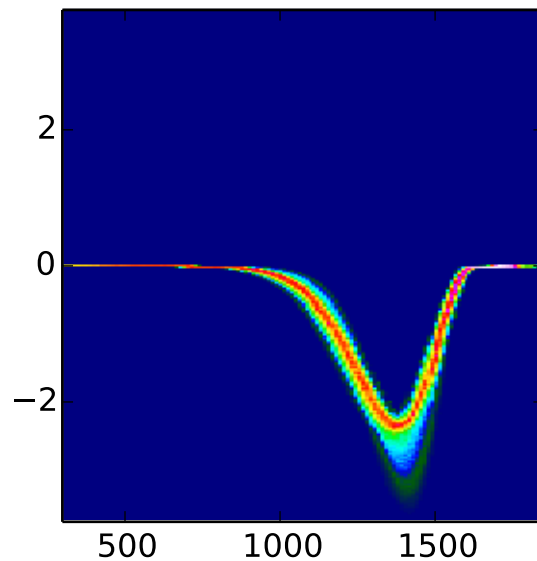
Curvature: 400 : 1200



Curvature: 1200 : 2000

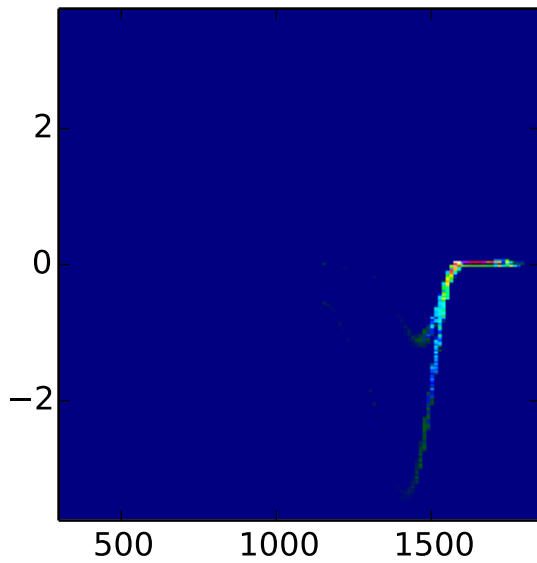


Sum

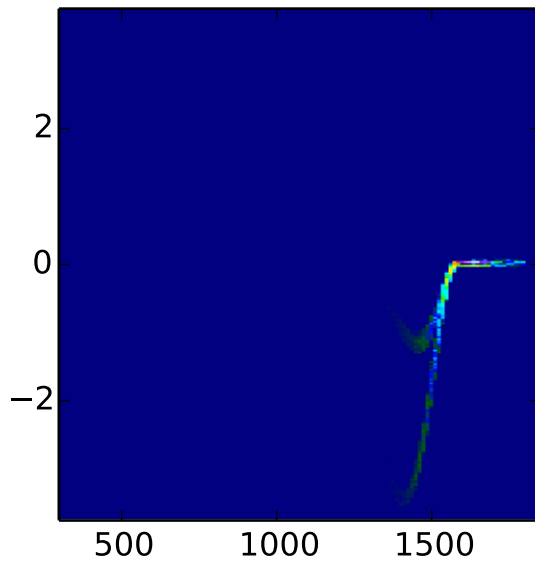


# Edge CH<sub>3</sub> $\rightleftharpoons$ C<sub>3</sub>H<sub>7</sub>

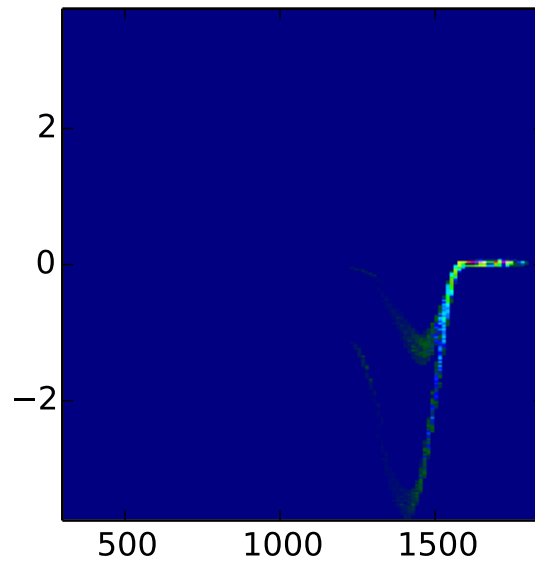
Curvature: -6000 : -5200



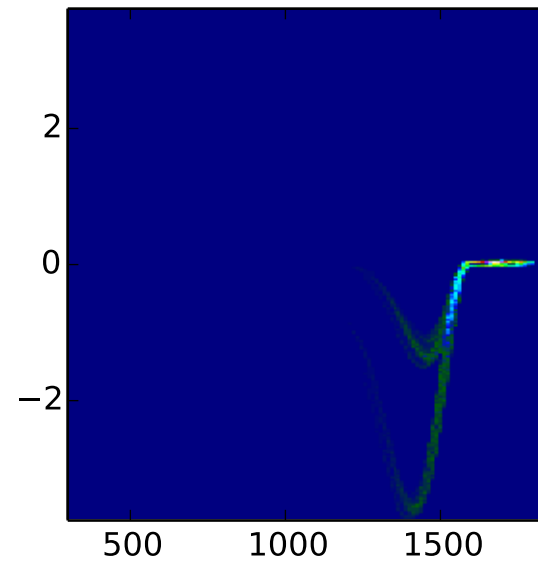
Curvature: -5200 : -4400



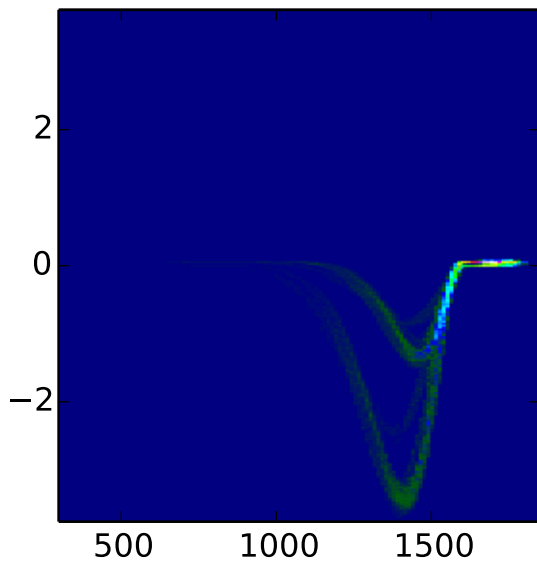
Curvature: -4400 : -3600



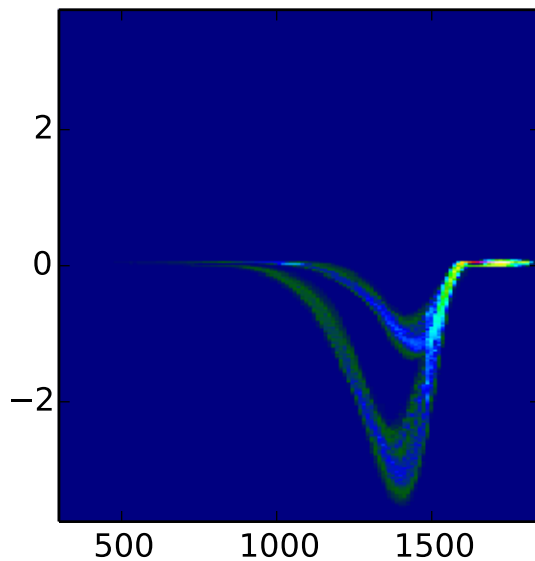
Curvature: -3600 : -2800



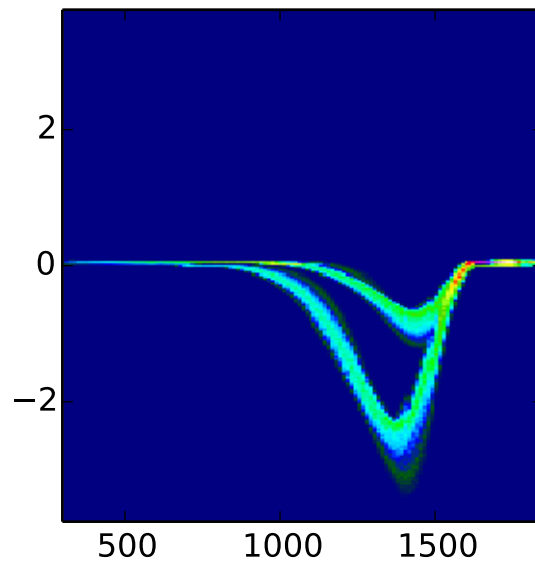
Curvature: -2800 : -2000



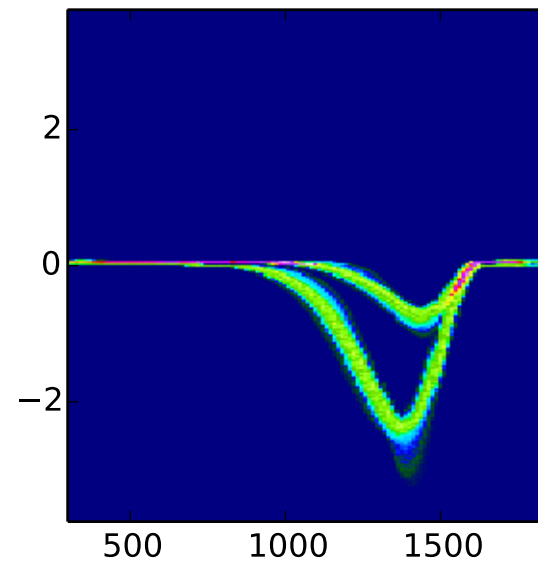
Curvature: -2000 : -1200



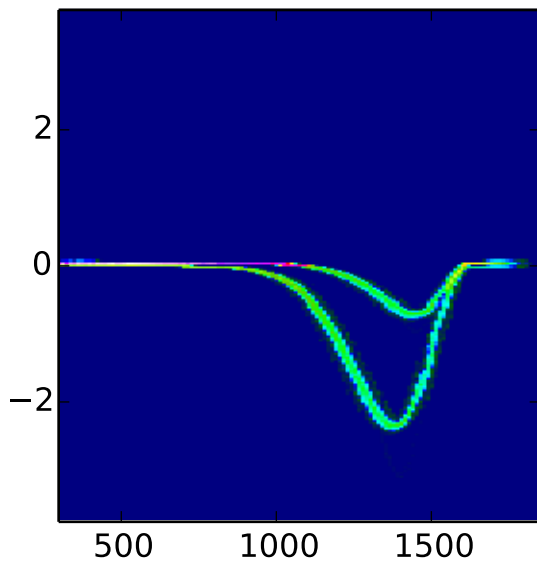
Curvature: -1200 : -400



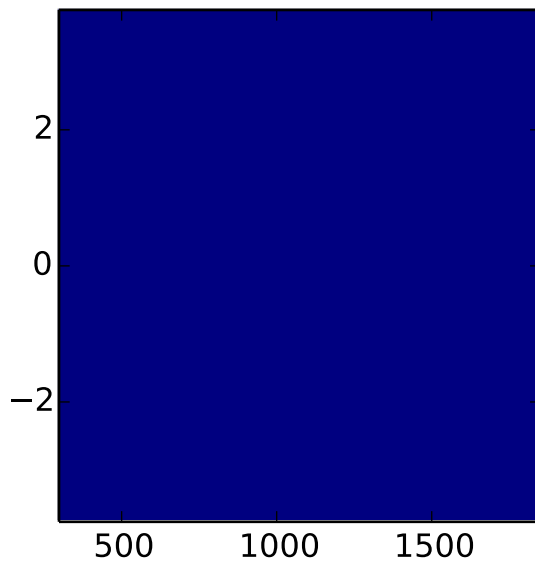
Curvature: -400 : 400



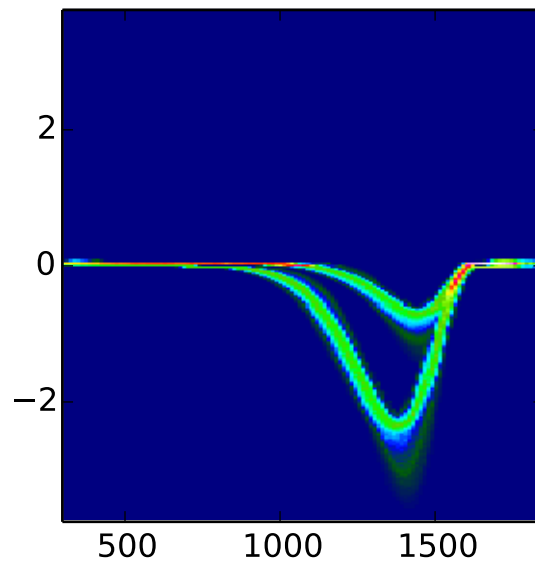
Curvature: 400 : 1200



Curvature: 1200 : 2000

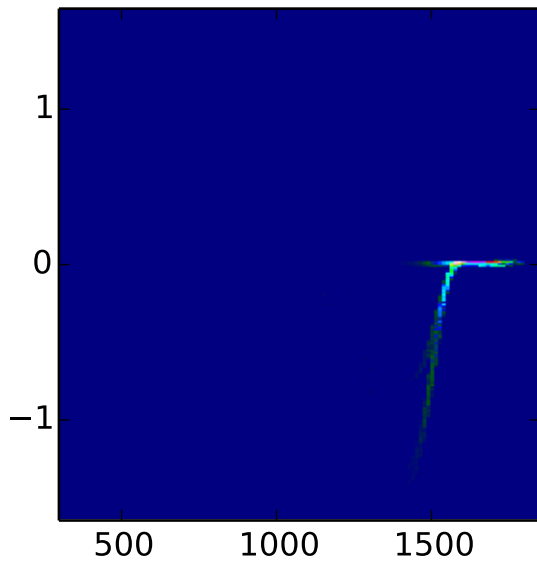


Sum

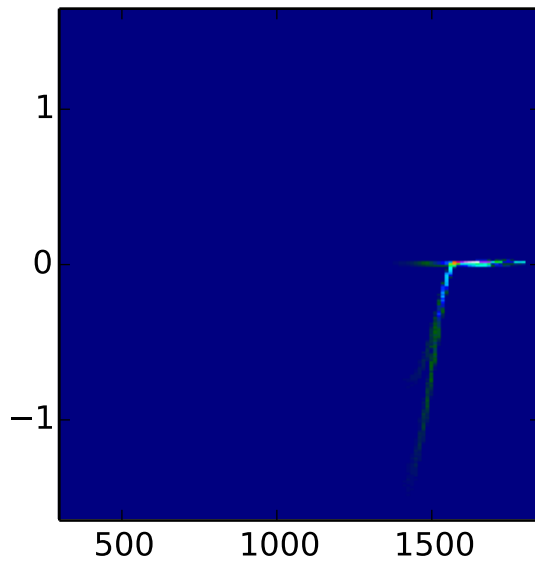


# Edge C3H7 $\rightleftharpoons$ C3H8

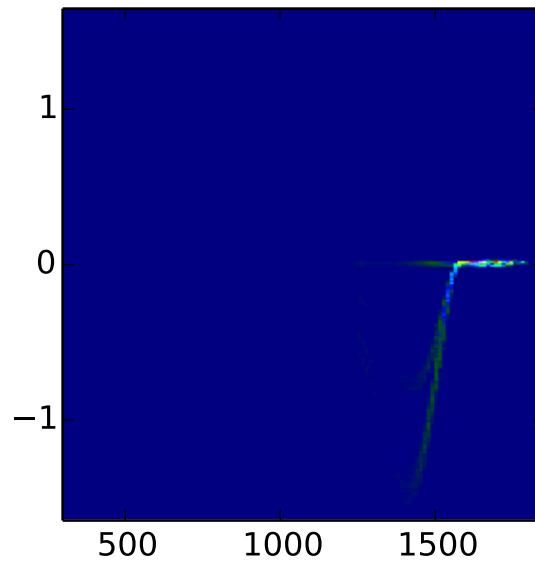
Curvature: -6000 : -5200



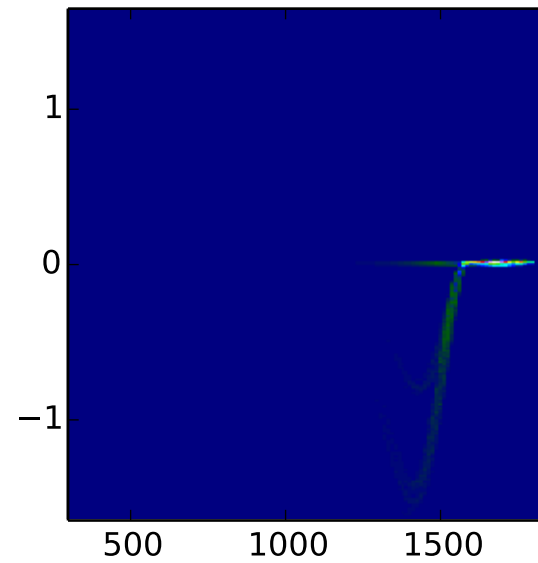
Curvature: -5200 : -4400



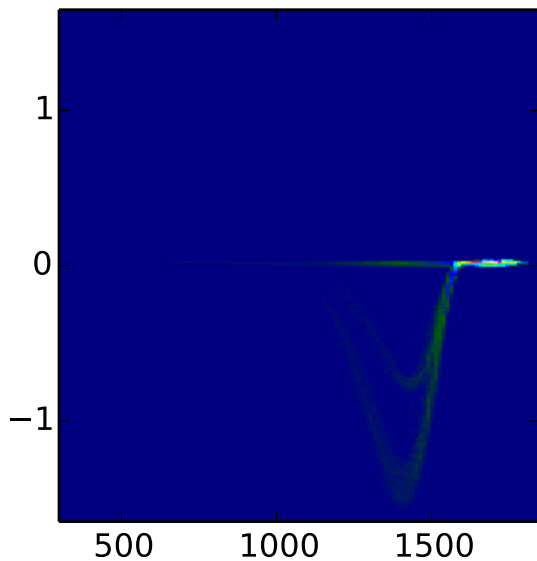
Curvature: -4400 : -3600



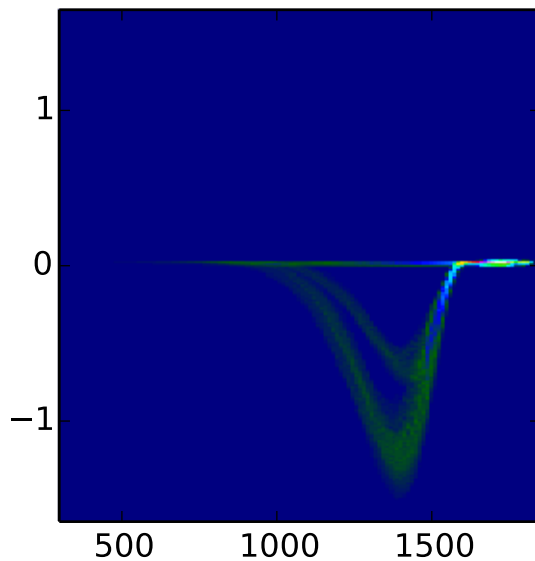
Curvature: -3600 : -2800



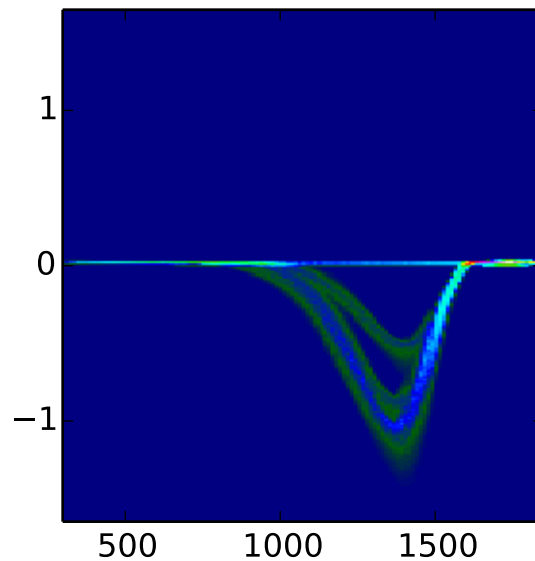
Curvature: -2800 : -2000



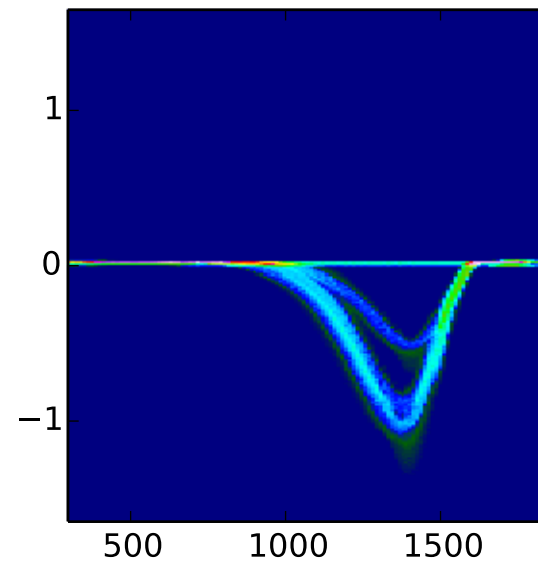
Curvature: -2000 : -1200



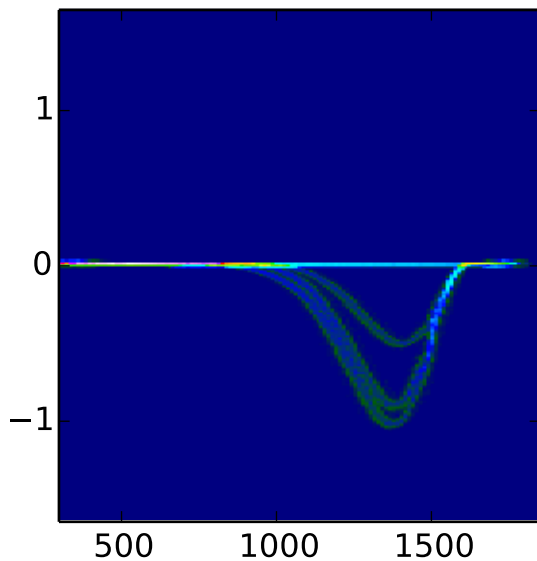
Curvature: -1200 : -400



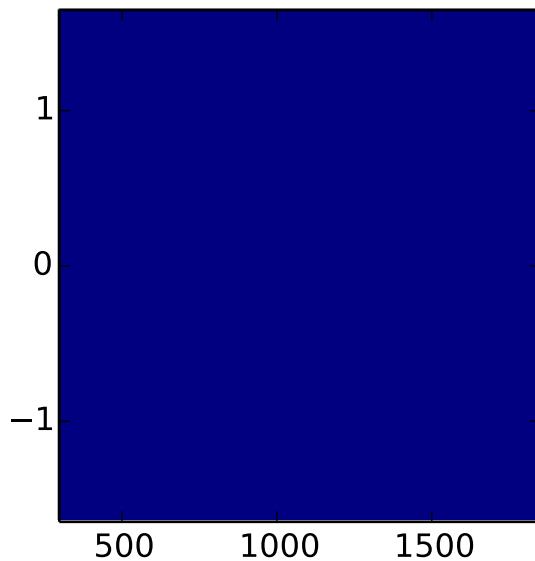
Curvature: -400 : 400



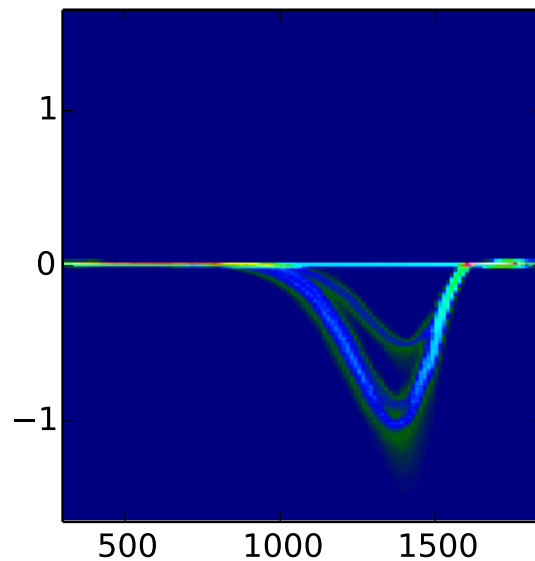
Curvature: 400 : 1200



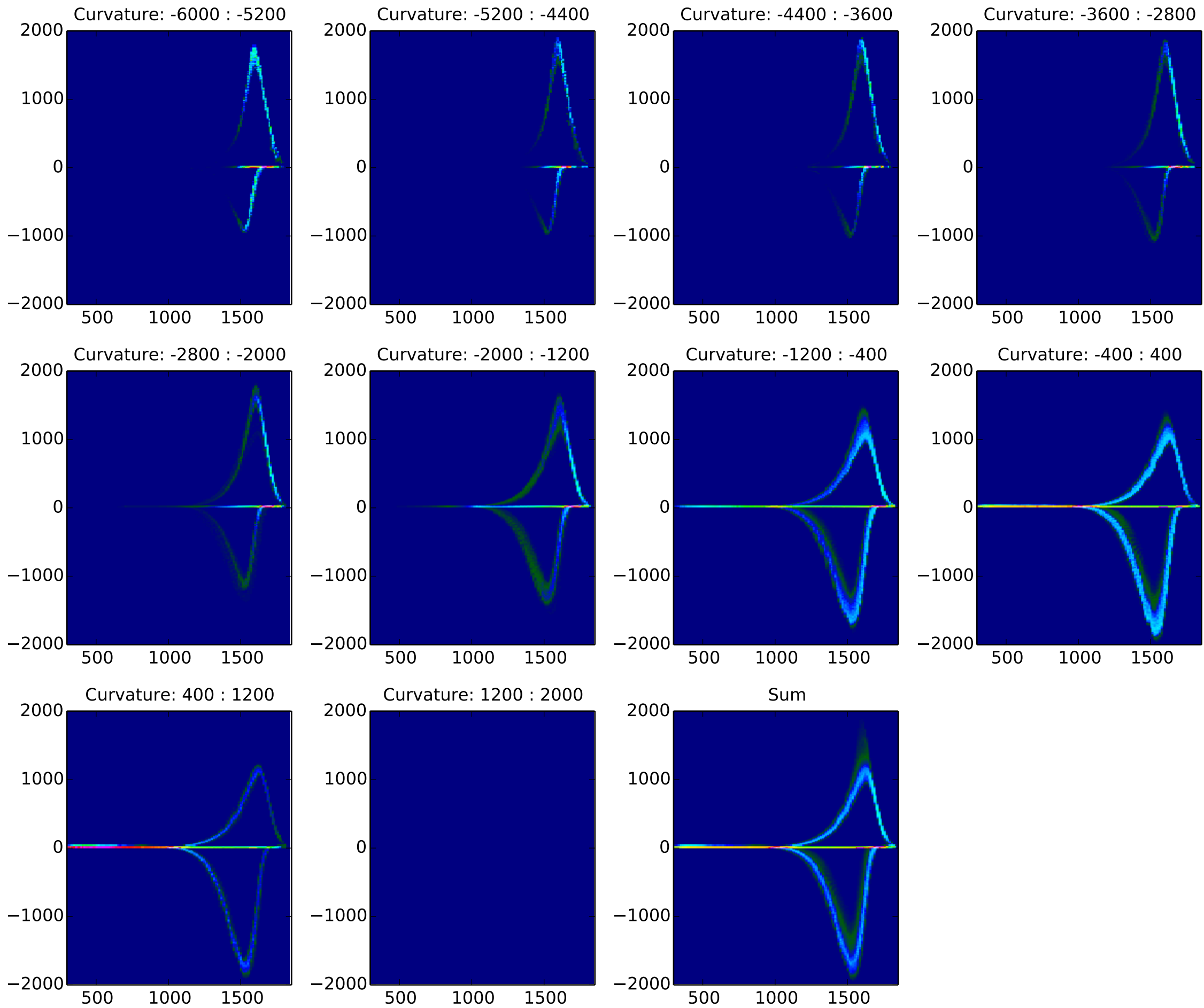
Curvature: 1200 : 2000



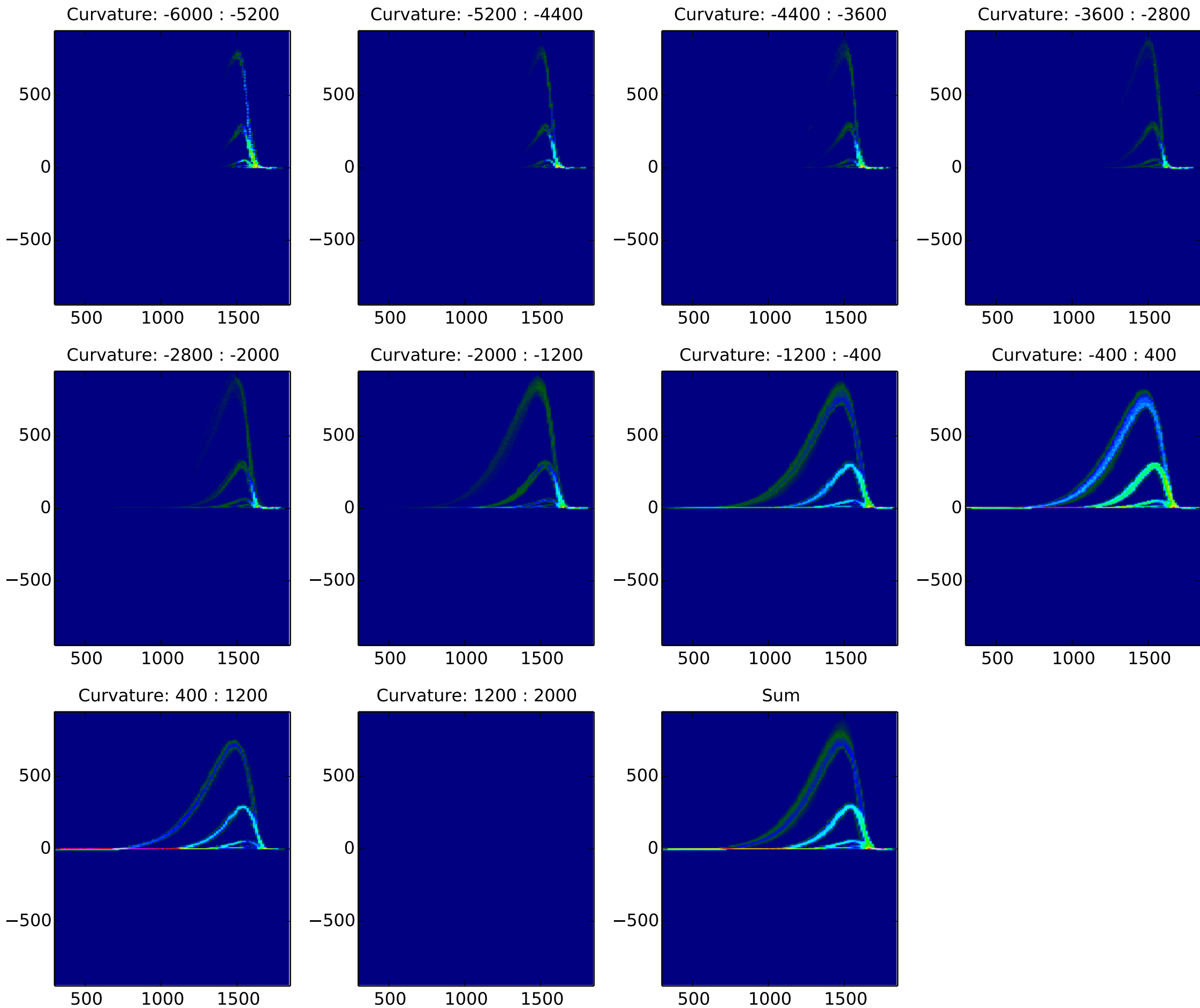
Sum



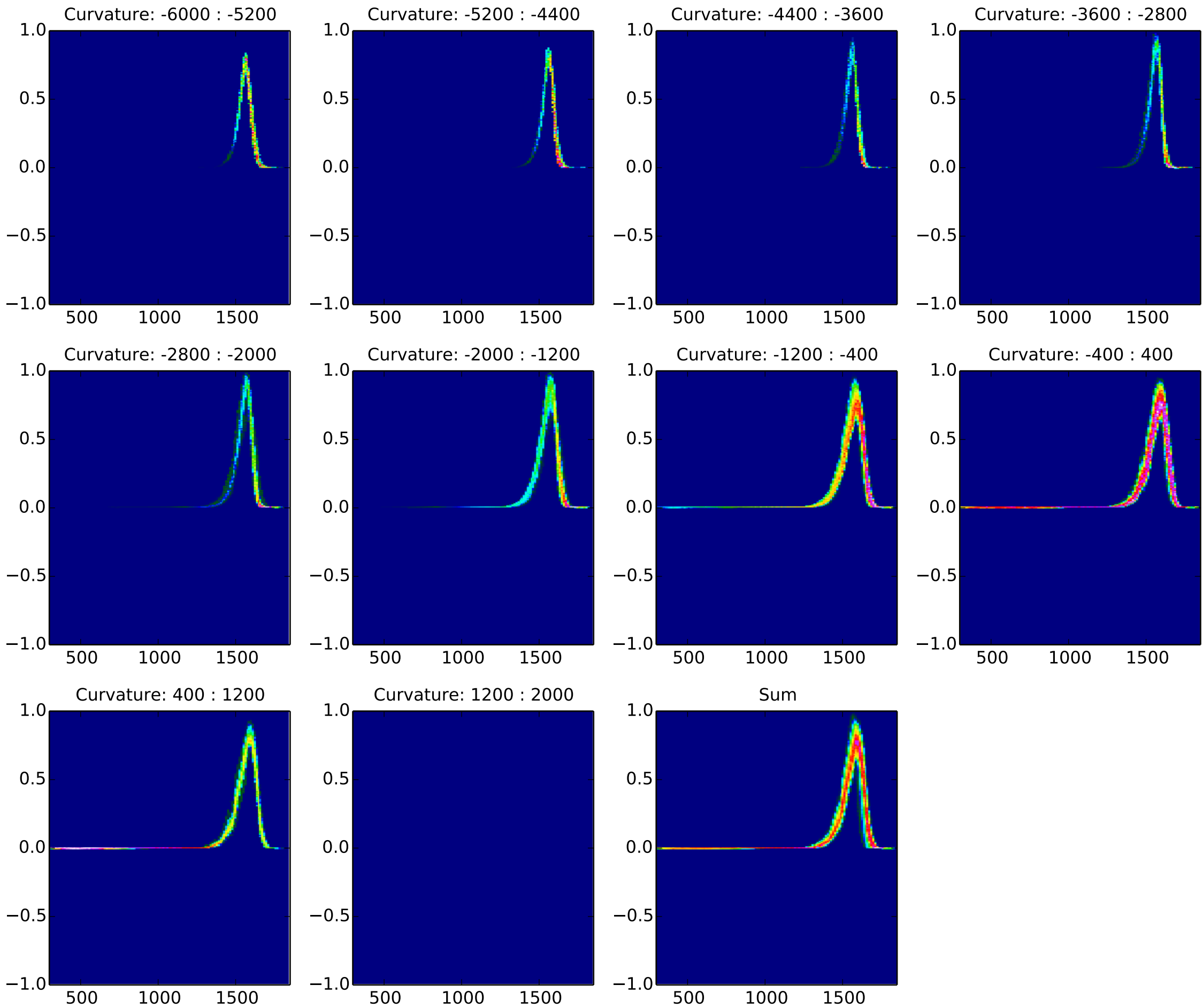
# Edge CO $\rightleftharpoons$ CO2



# Edge HCO $\rightleftharpoons$ CO



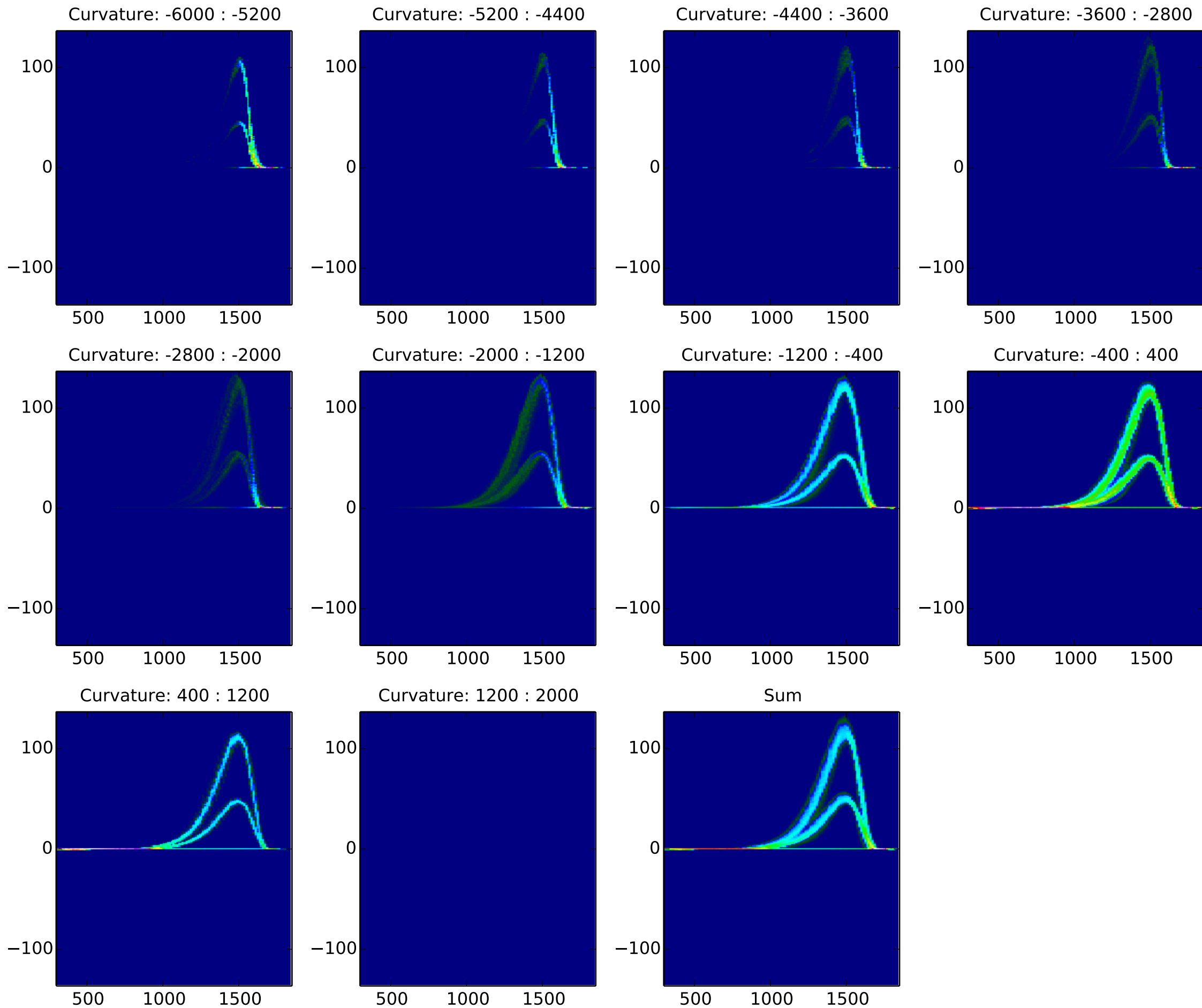
# Edge CH $\rightleftharpoons$ CO





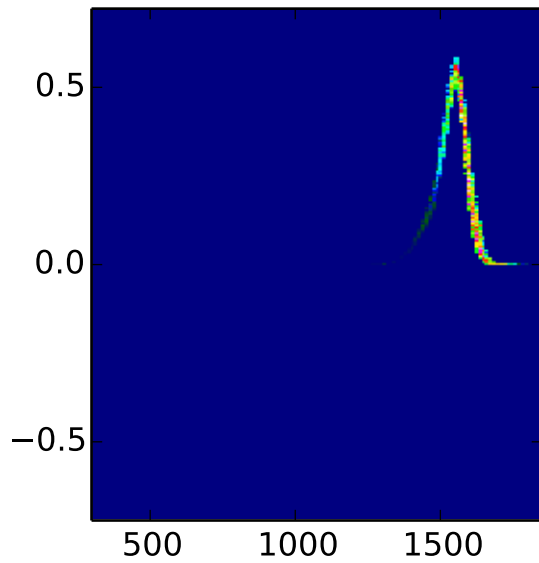


# Edge CH<sub>2</sub>(S) $\rightleftharpoons$ CO

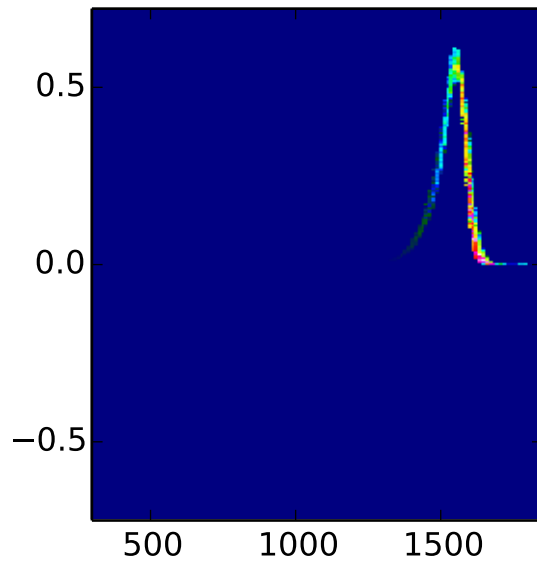


# Edge CH<sub>2</sub>(S) $\rightleftharpoons$ HCO

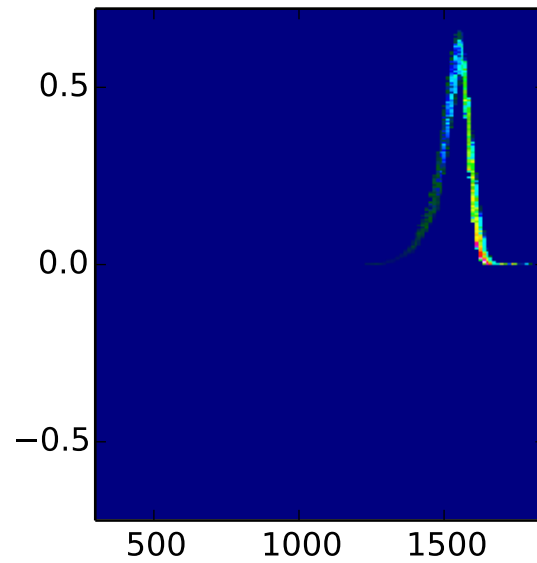
Curvature: -6000 : -5200



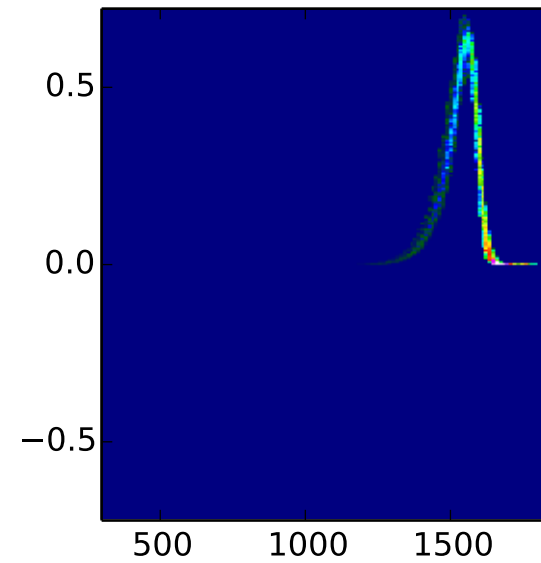
Curvature: -5200 : -4400



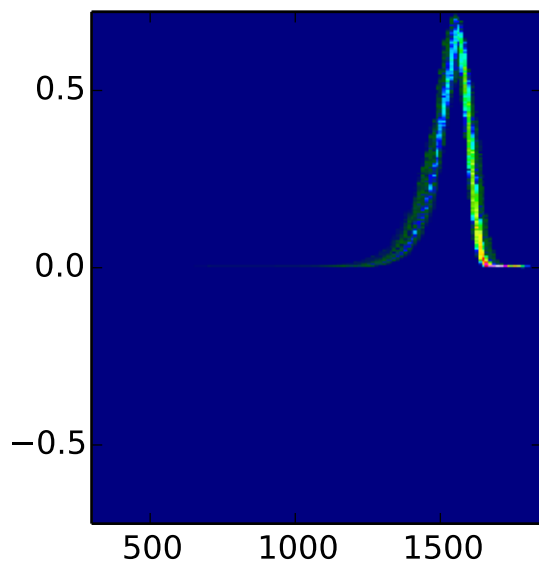
Curvature: -4400 : -3600



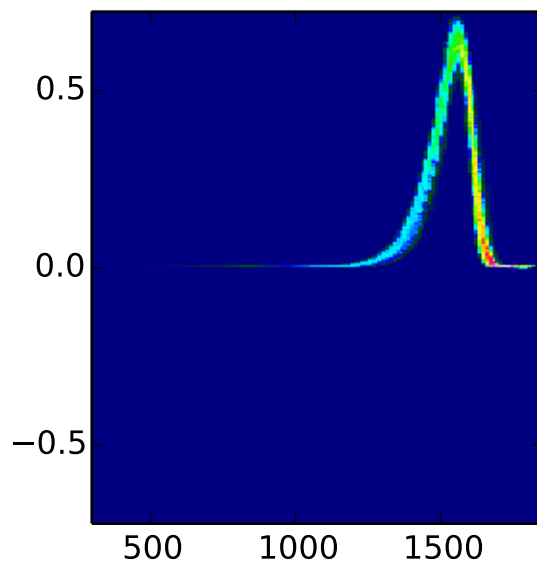
Curvature: -3600 : -2800



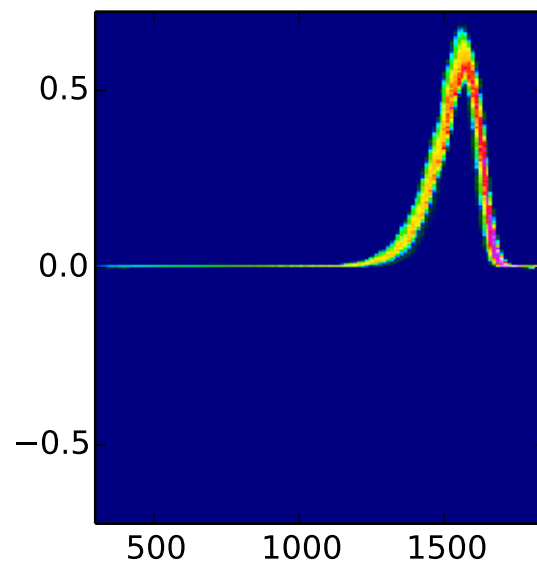
Curvature: -2800 : -2000



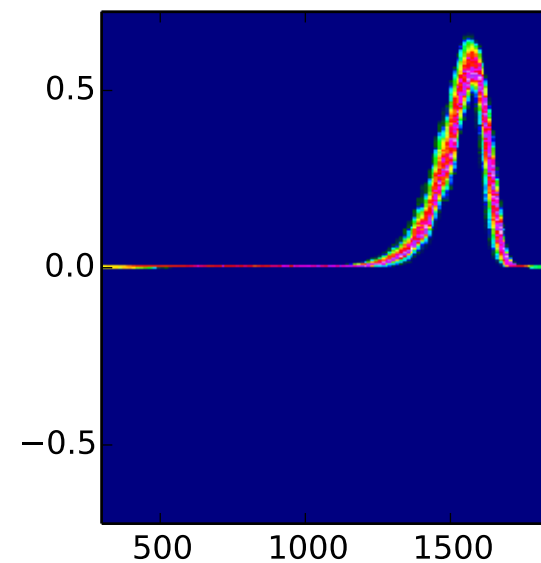
Curvature: -2000 : -1200



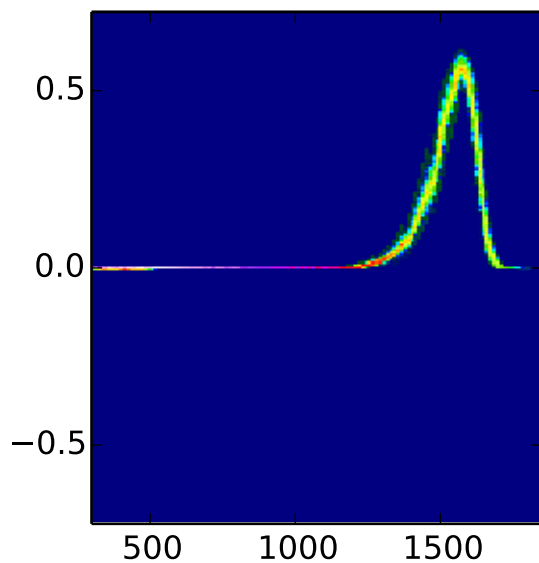
Curvature: -1200 : -400



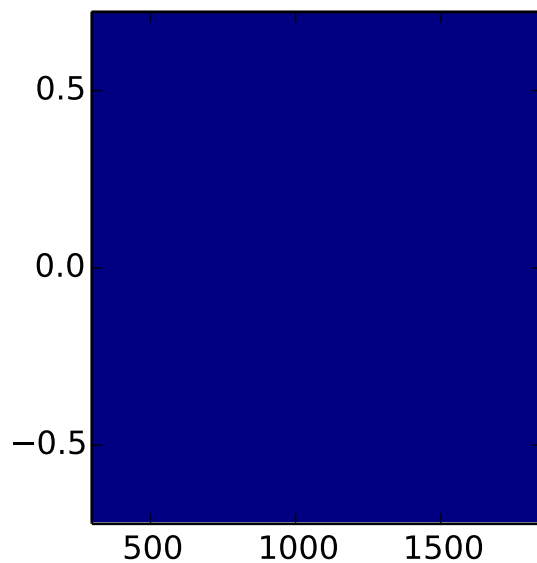
Curvature: -400 : 400



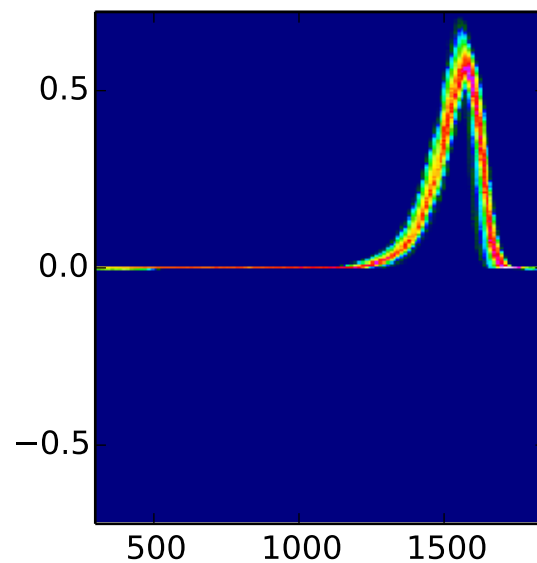
Curvature: 400 : 1200



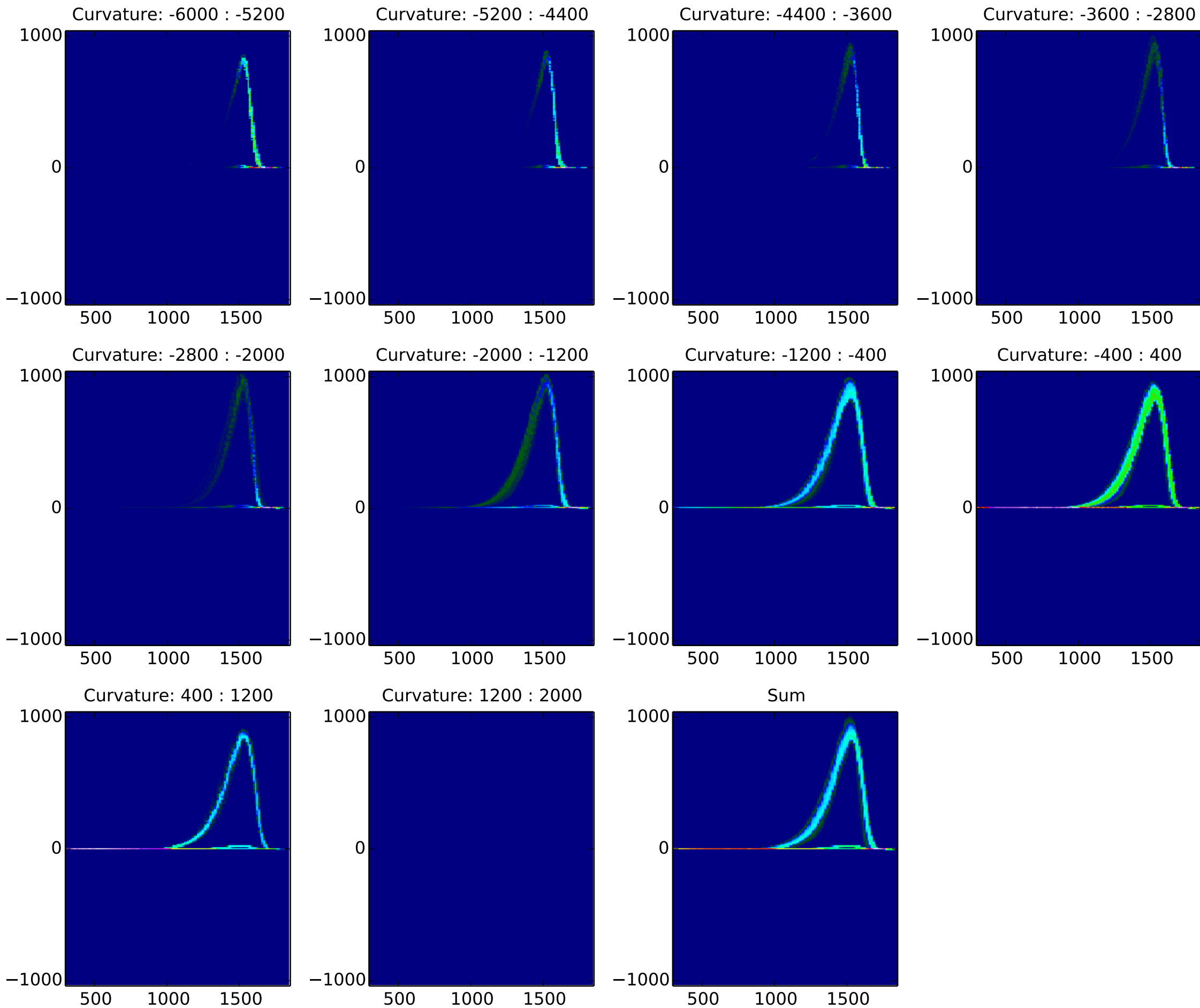
Curvature: 1200 : 2000



Sum

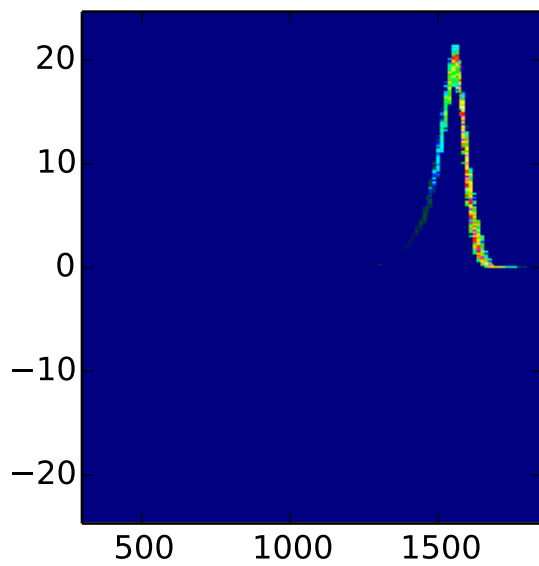


# Edge CH3 $\rightleftharpoons$ CH2O

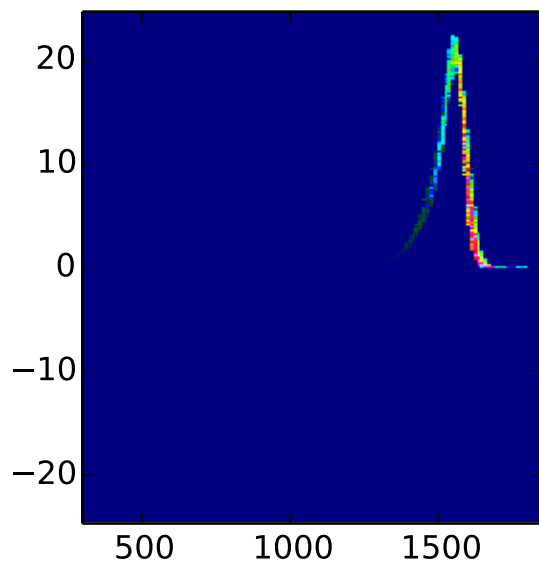


# Edge HCO $\rightleftharpoons$ CO<sub>2</sub>

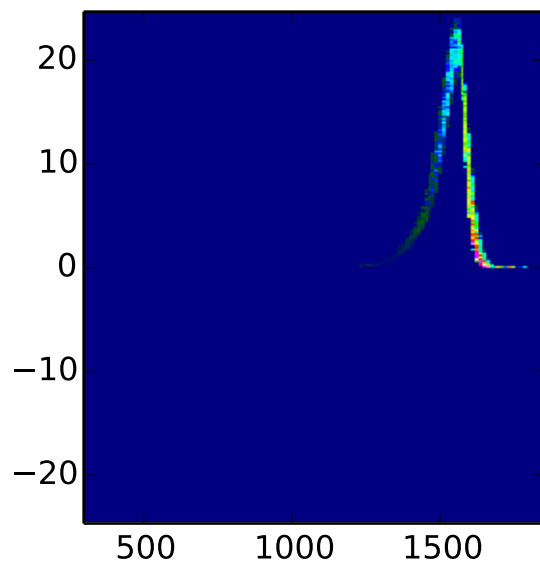
Curvature: -6000 : -5200



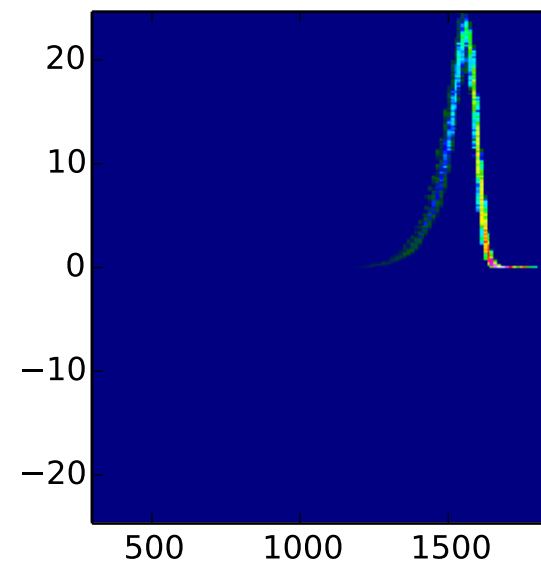
Curvature: -5200 : -4400



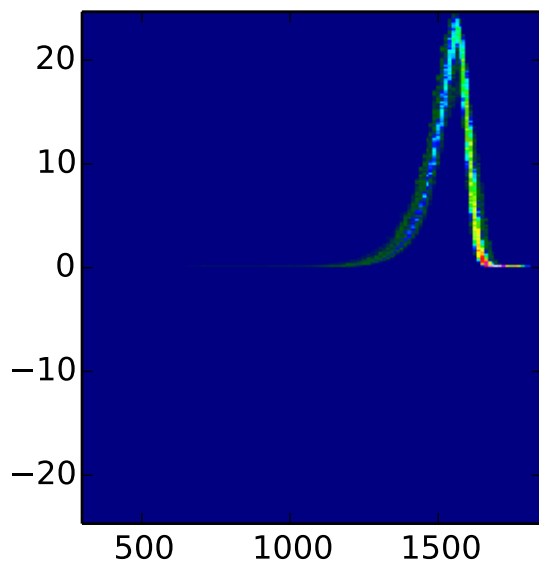
Curvature: -4400 : -3600



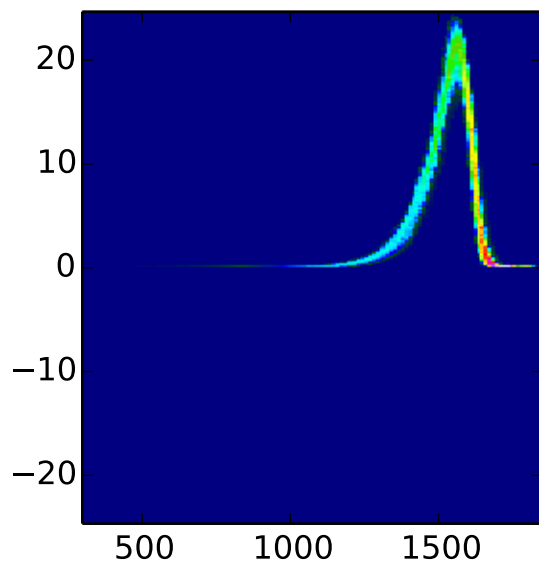
Curvature: -3600 : -2800



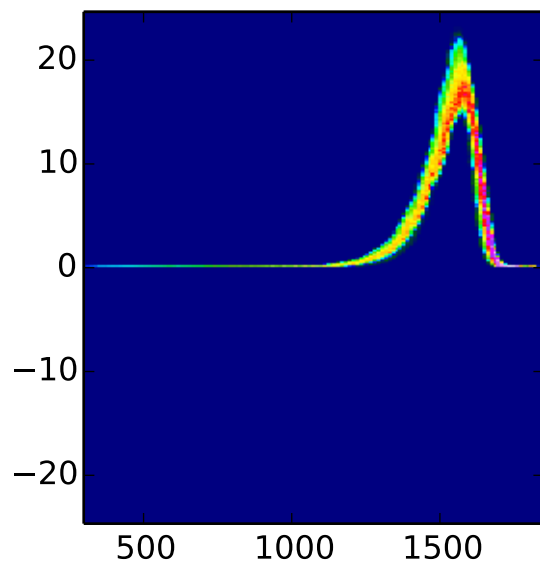
Curvature: -2800 : -2000



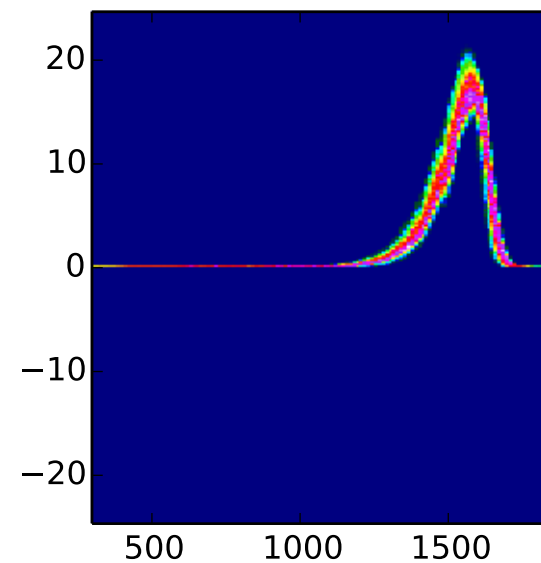
Curvature: -2000 : -1200



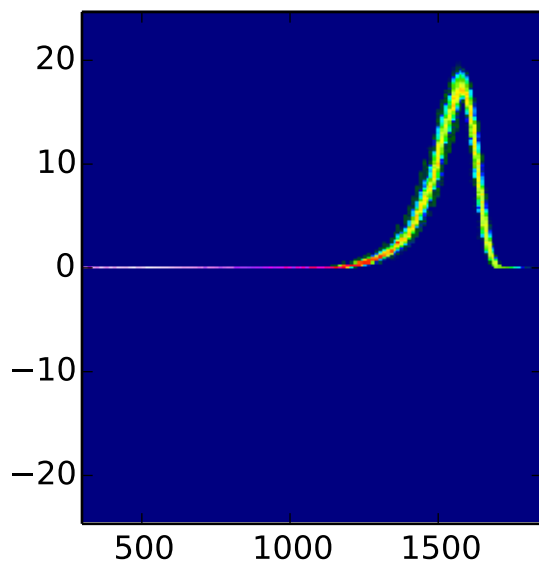
Curvature: -1200 : -400



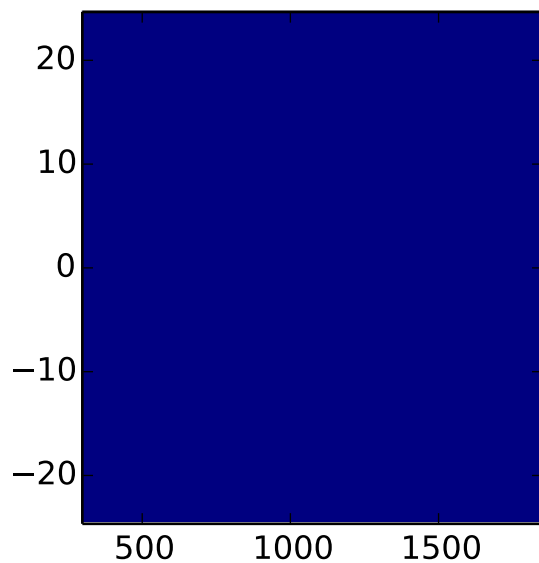
Curvature: -400 : 400



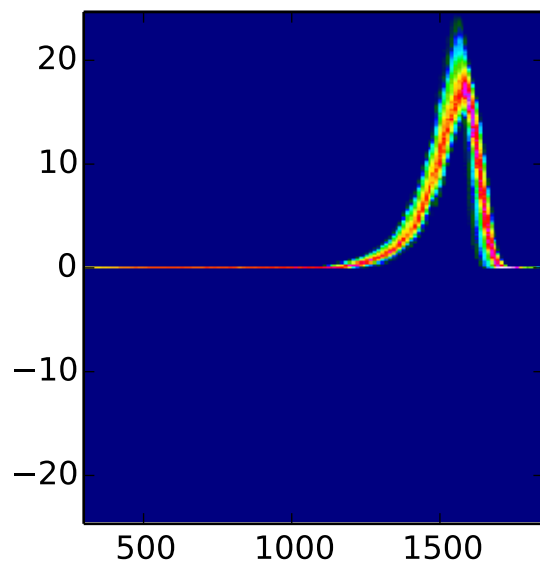
Curvature: 400 : 1200



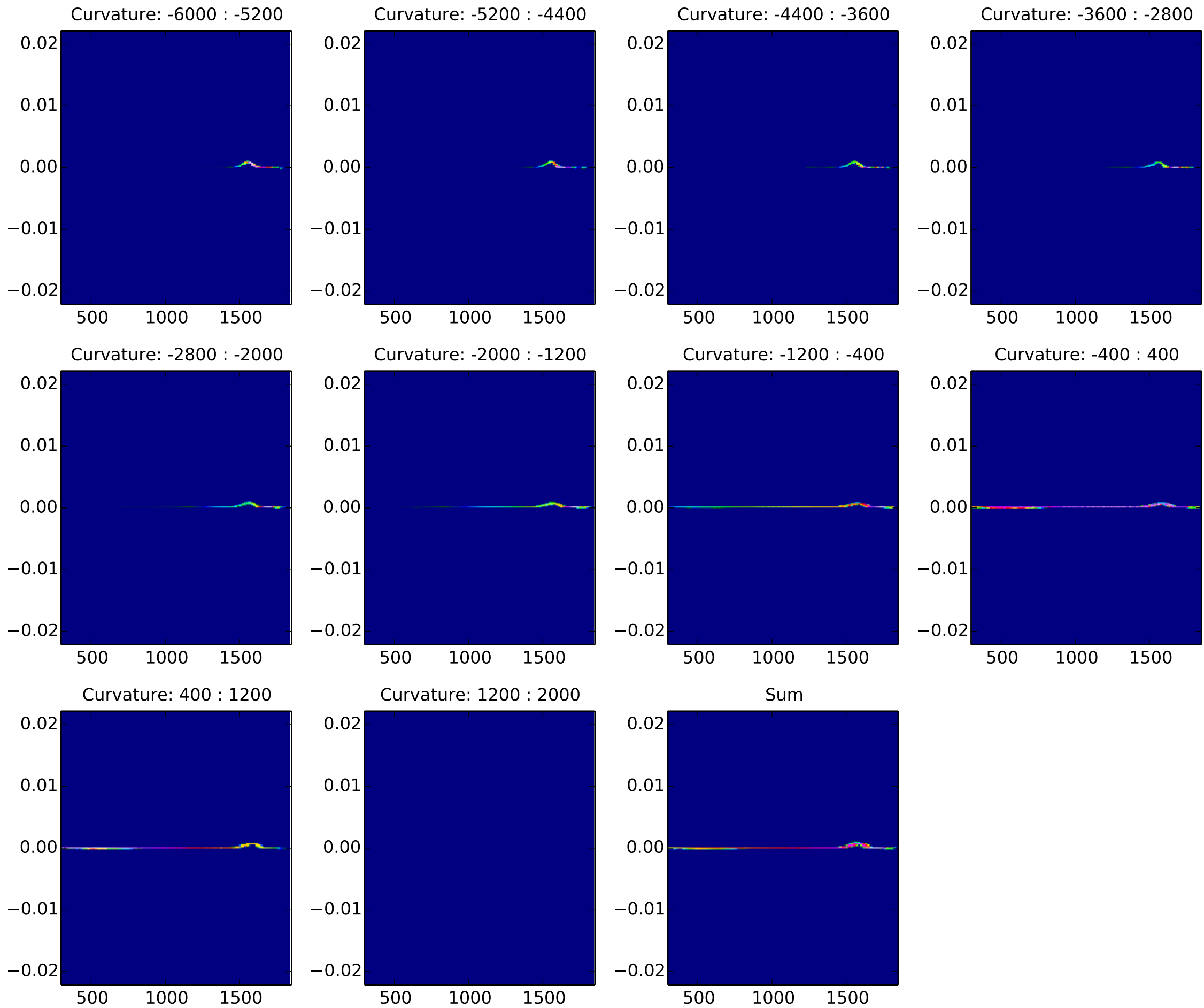
Curvature: 1200 : 2000



Sum

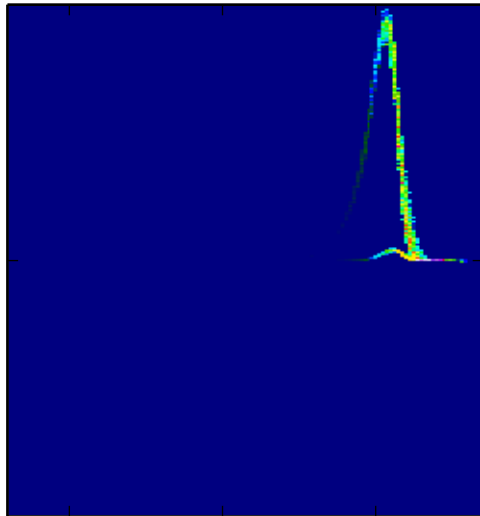


# Edge C2H $\rightleftharpoons$ CH

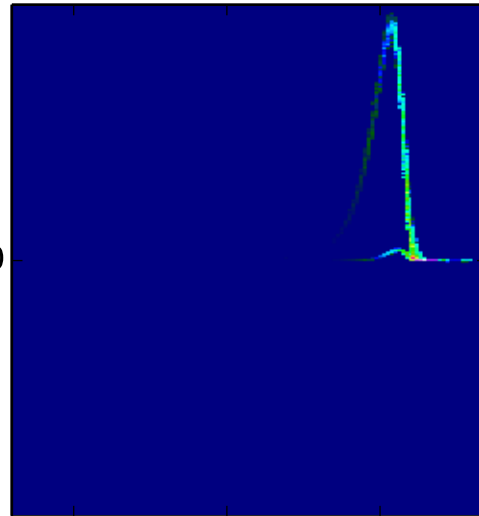


# Edge C2H $\rightleftharpoons$ CO

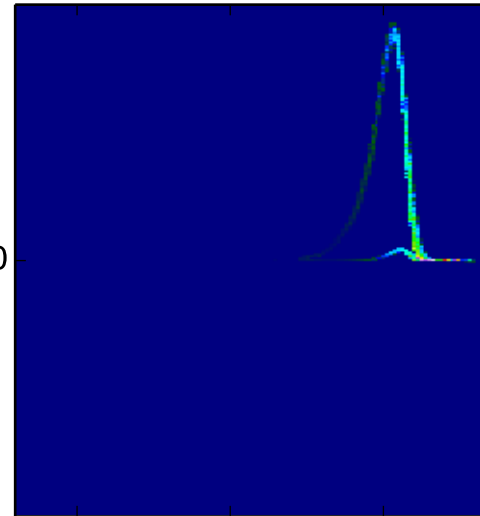
Curvature: -6000 : -5200



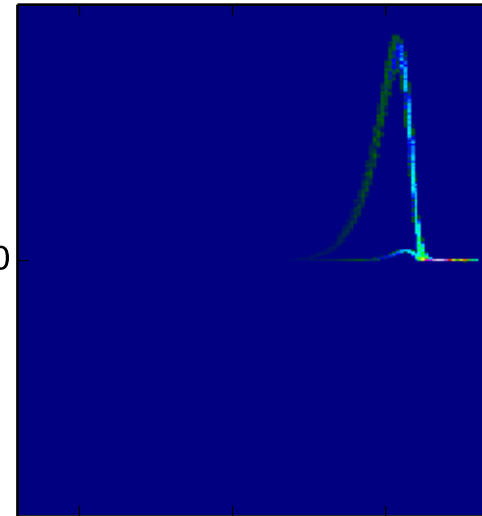
Curvature: -5200 : -4400



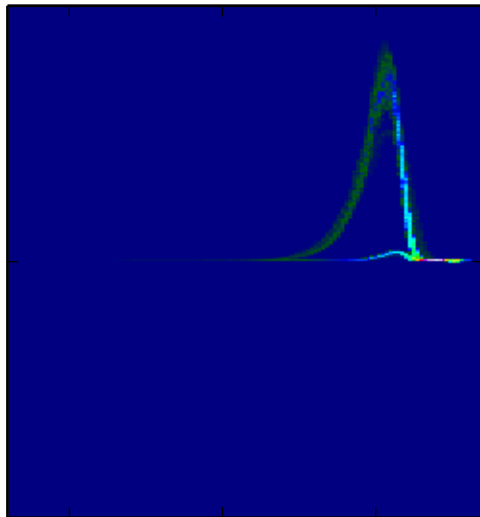
Curvature: -4400 : -3600



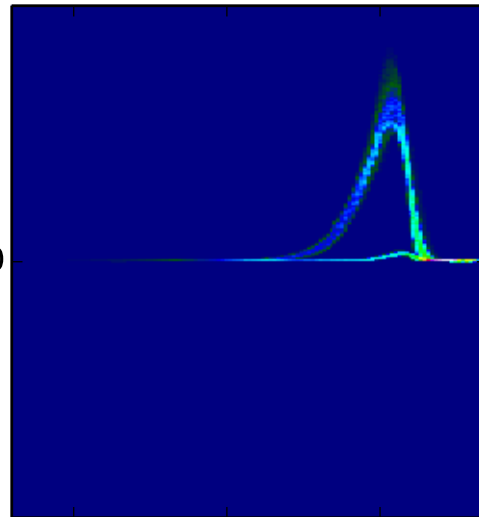
Curvature: -3600 : -2800



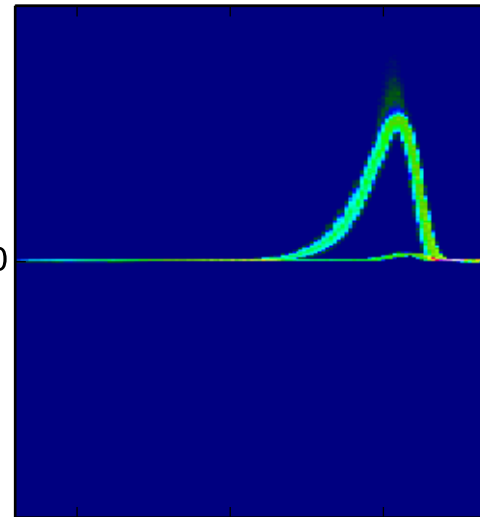
Curvature: -2800 : -2000



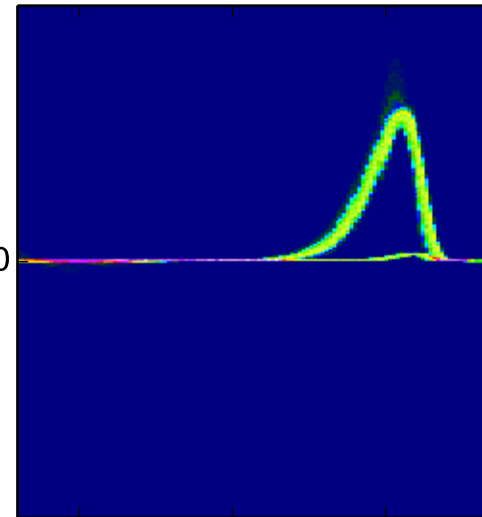
Curvature: -2000 : -1200



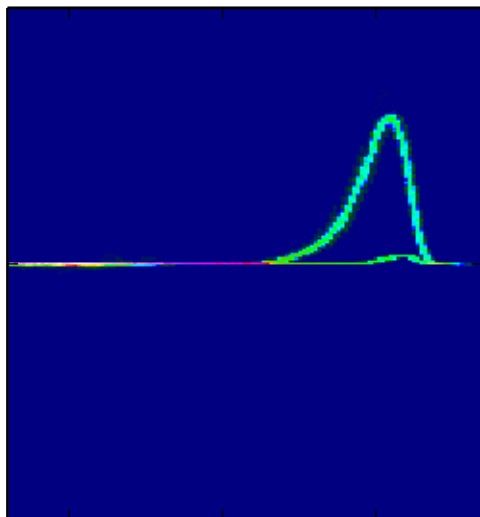
Curvature: -1200 : -400



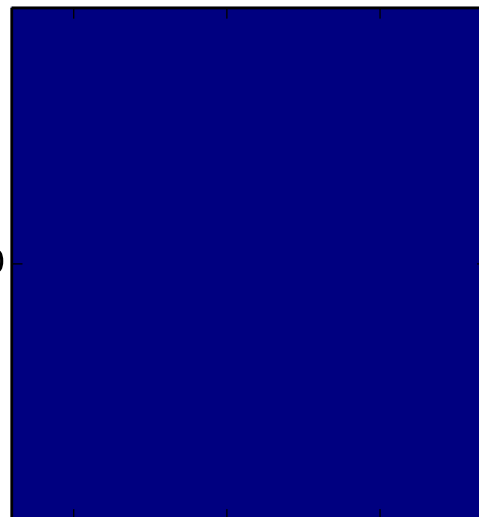
Curvature: -400 : 400



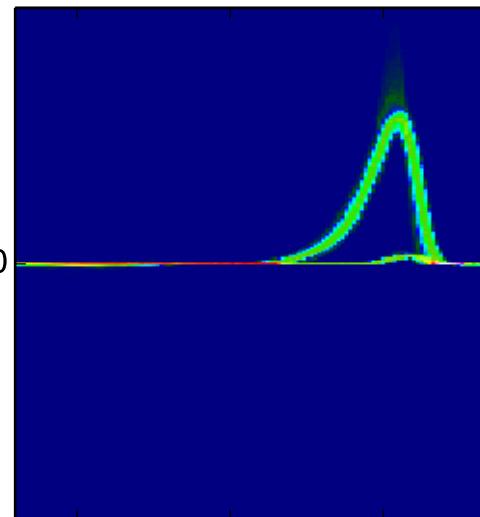
Curvature: 400 : 1200



Curvature: 1200 : 2000

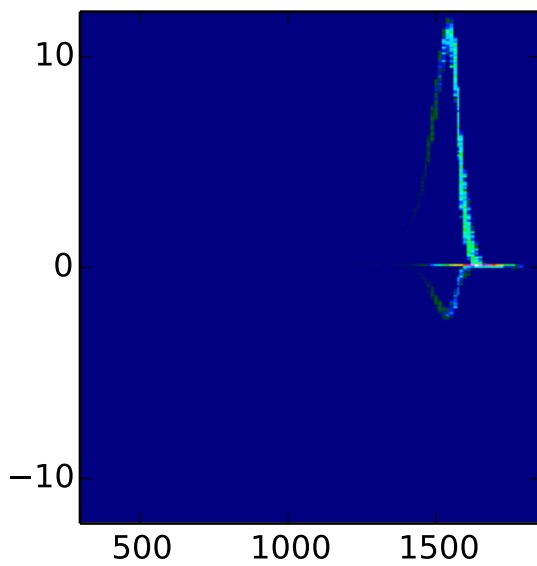


Sum

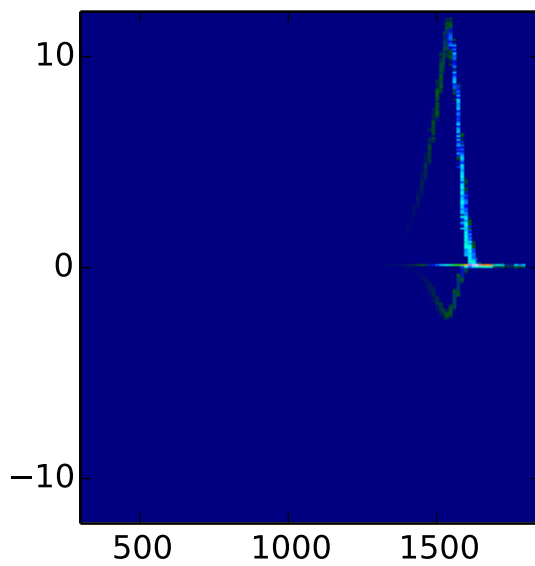


# Edge C2H2 $\rightleftharpoons$ HCCO

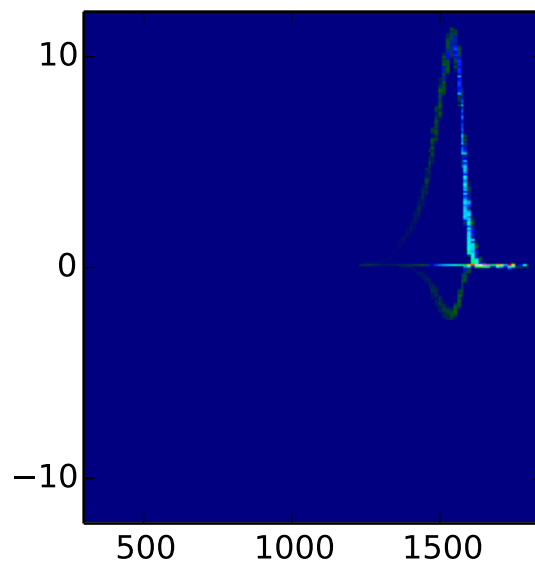
Curvature: -6000 : -5200



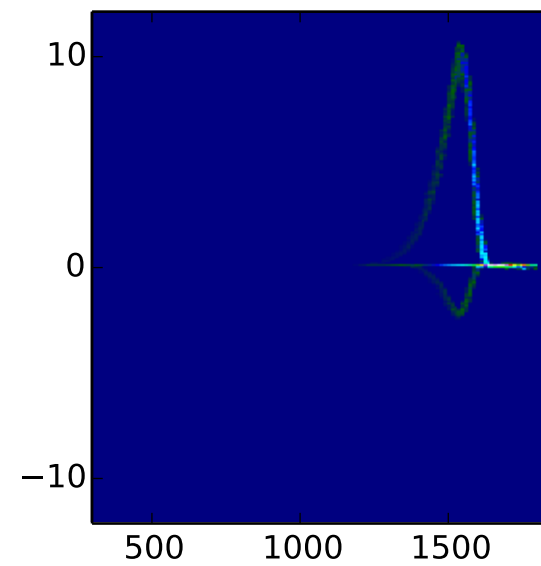
Curvature: -5200 : -4400



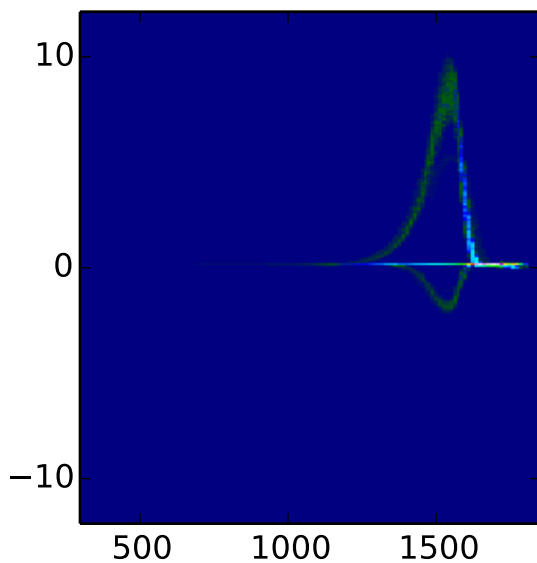
Curvature: -4400 : -3600



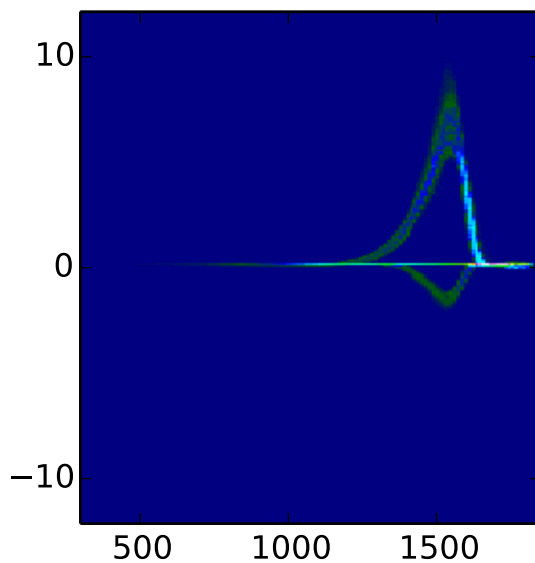
Curvature: -3600 : -2800



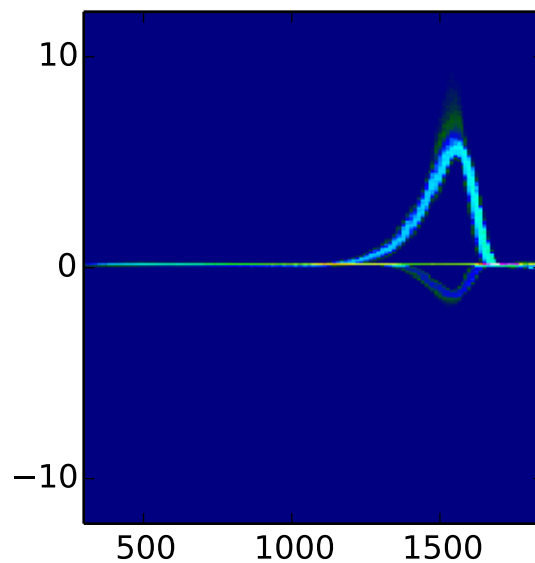
Curvature: -2800 : -2000



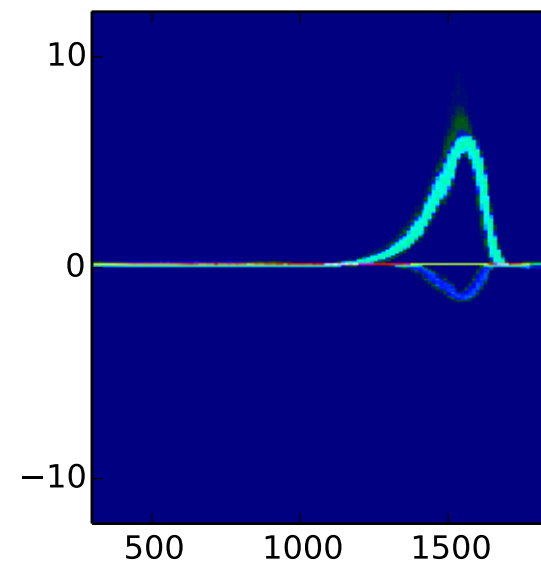
Curvature: -2000 : -1200



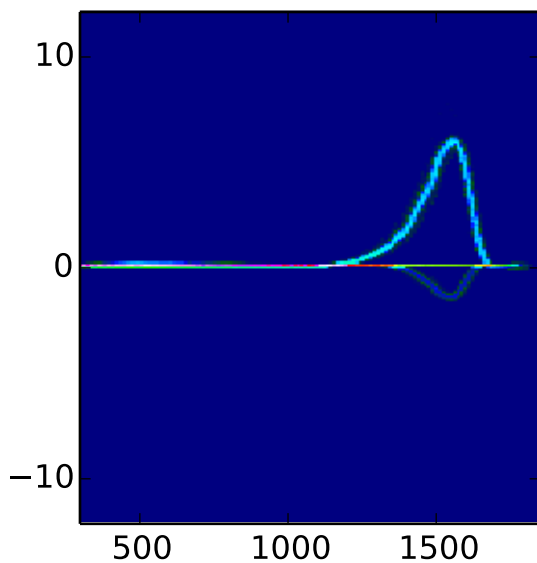
Curvature: -1200 : -400



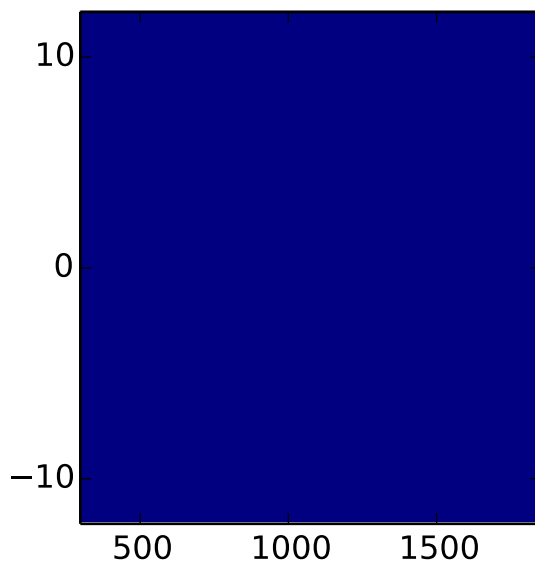
Curvature: -400 : 400



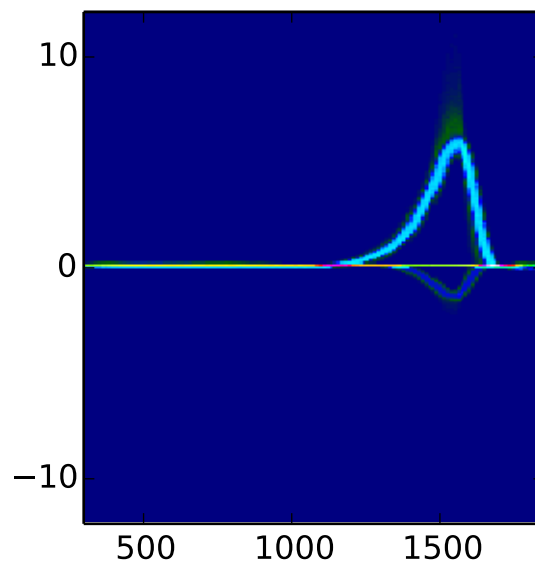
Curvature: 400 : 1200



Curvature: 1200 : 2000

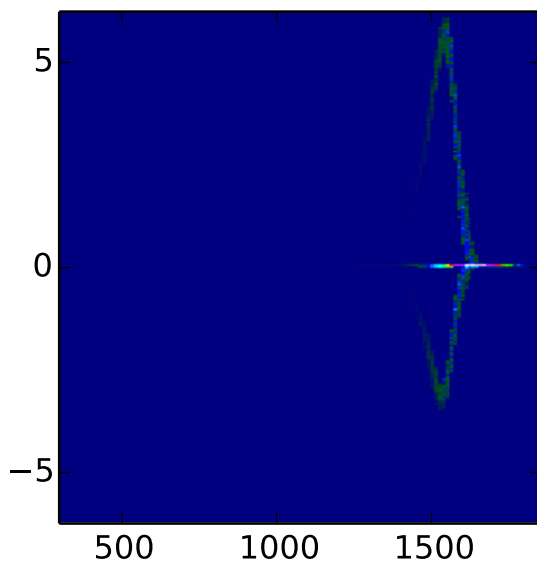


Sum

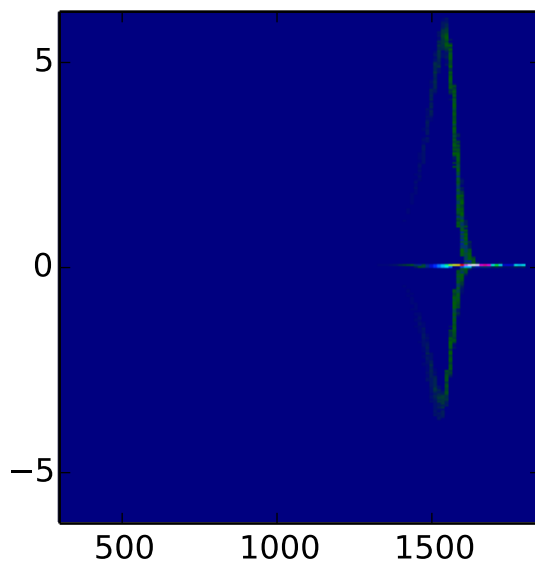


# Edge C2H2 $\rightleftharpoons$ CH2

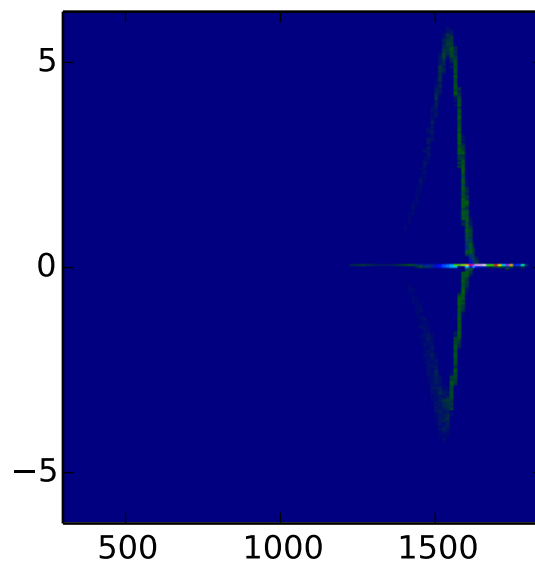
Curvature: -6000 : -5200



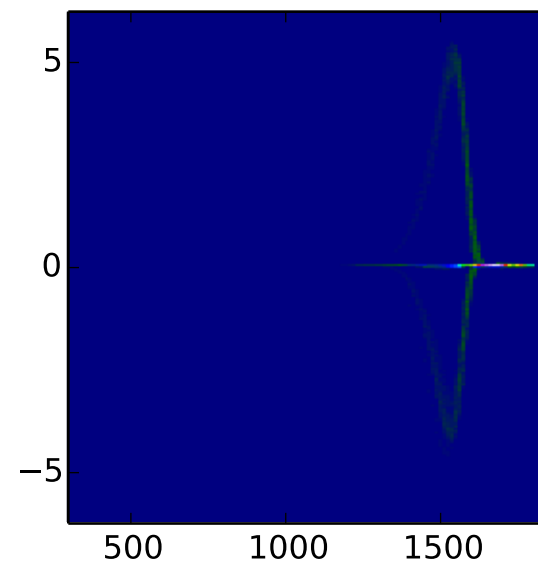
Curvature: -5200 : -4400



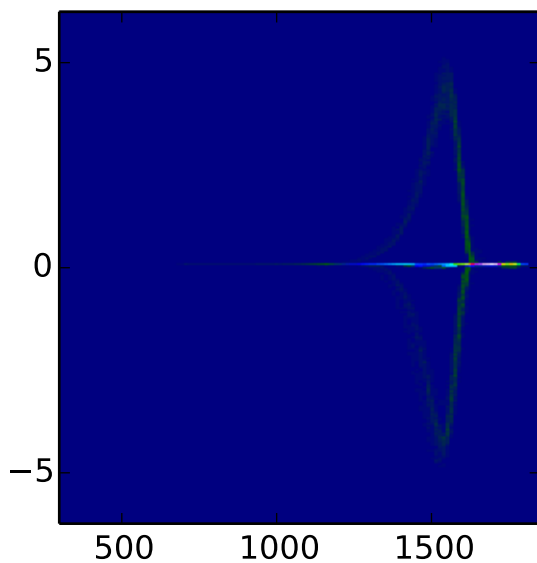
Curvature: -4400 : -3600



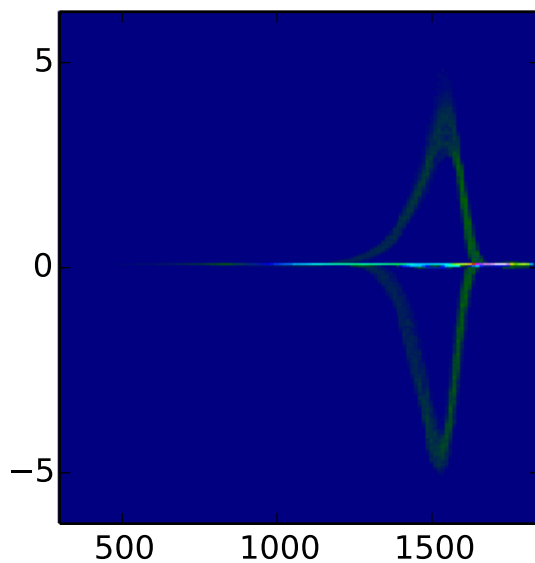
Curvature: -3600 : -2800



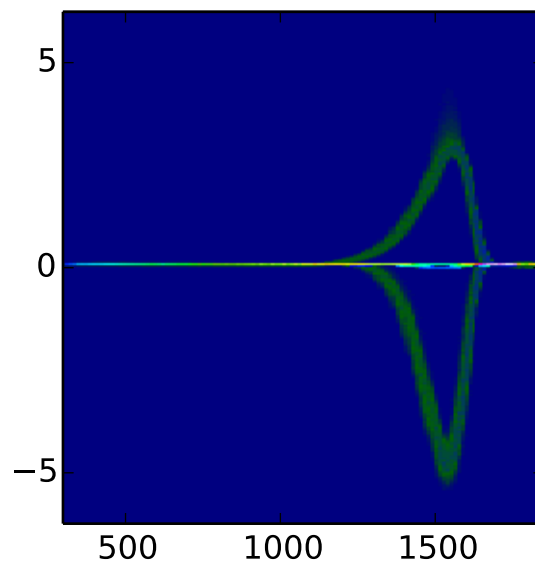
Curvature: -2800 : -2000



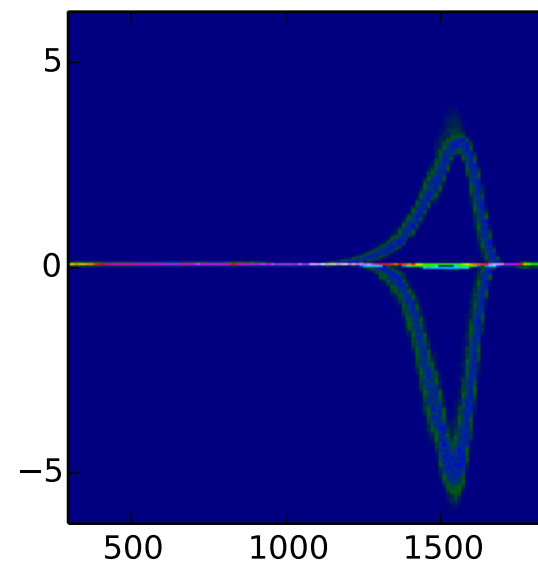
Curvature: -2000 : -1200



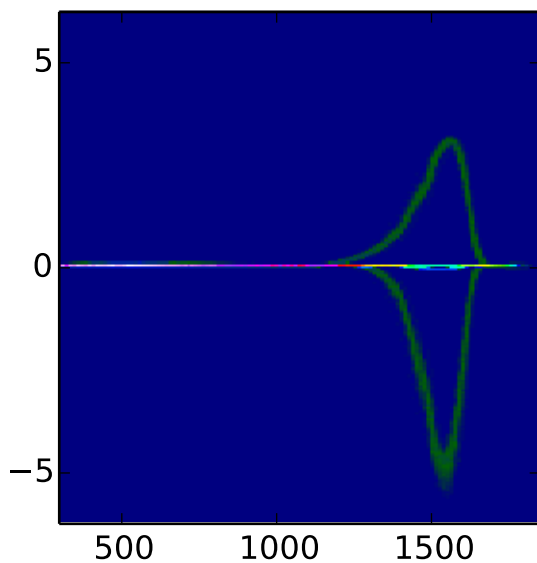
Curvature: -1200 : -400



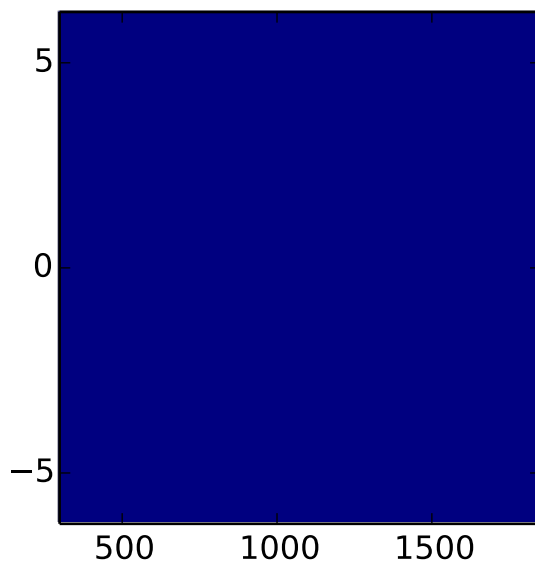
Curvature: -400 : 400



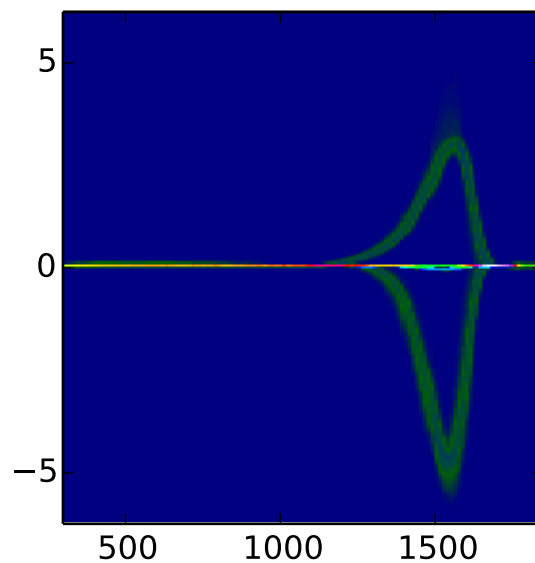
Curvature: 400 : 1200



Curvature: 1200 : 2000



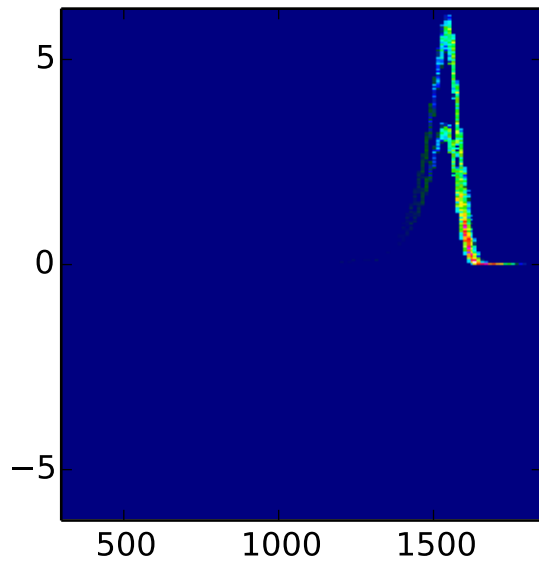
Sum



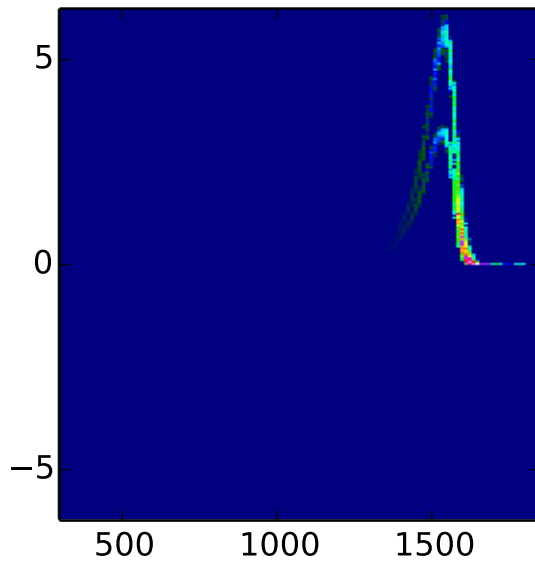


# Edge C2H2 $\rightleftharpoons$ CO

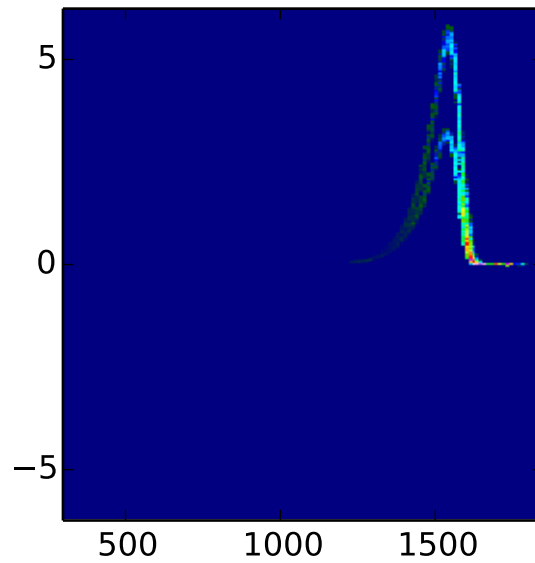
Curvature: -6000 : -5200



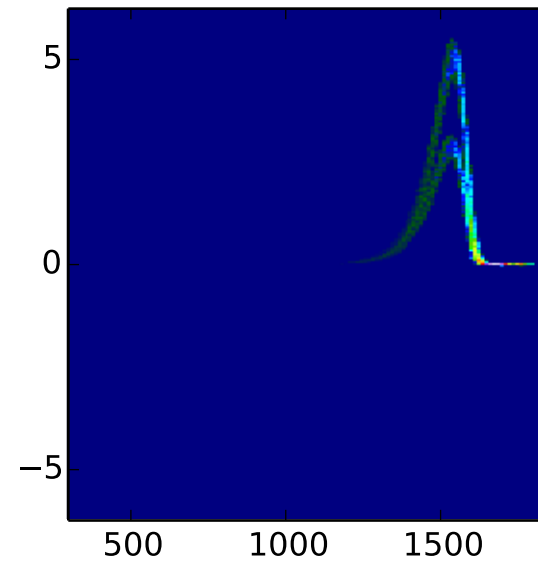
Curvature: -5200 : -4400



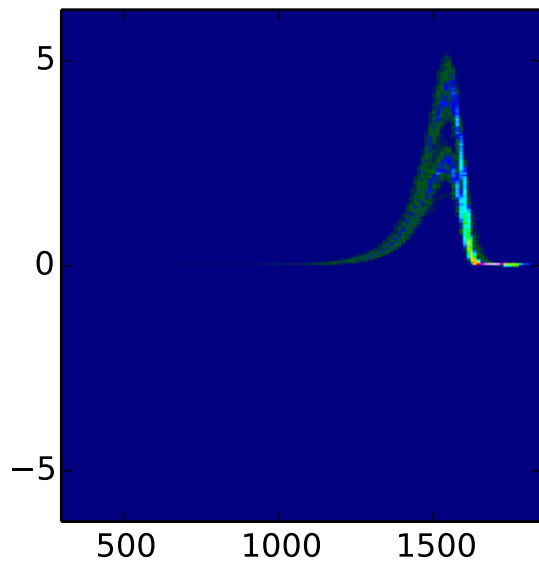
Curvature: -4400 : -3600



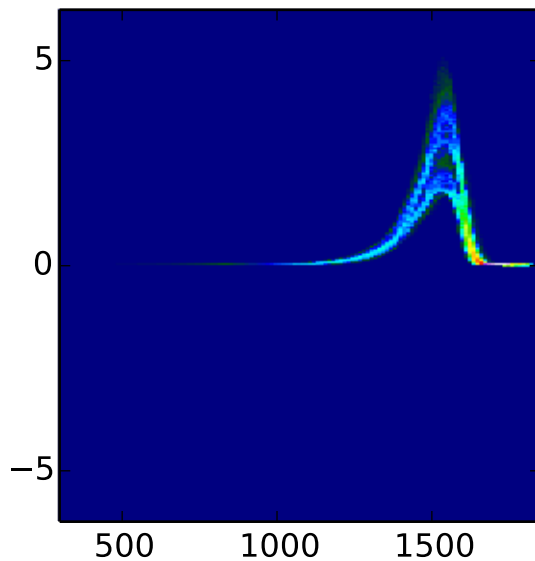
Curvature: -3600 : -2800



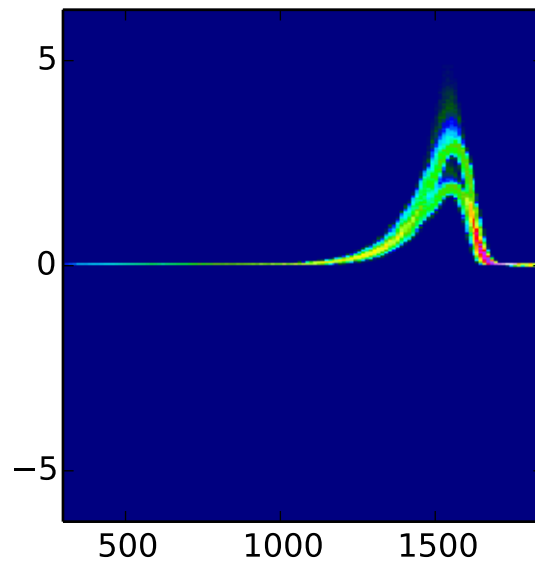
Curvature: -2800 : -2000



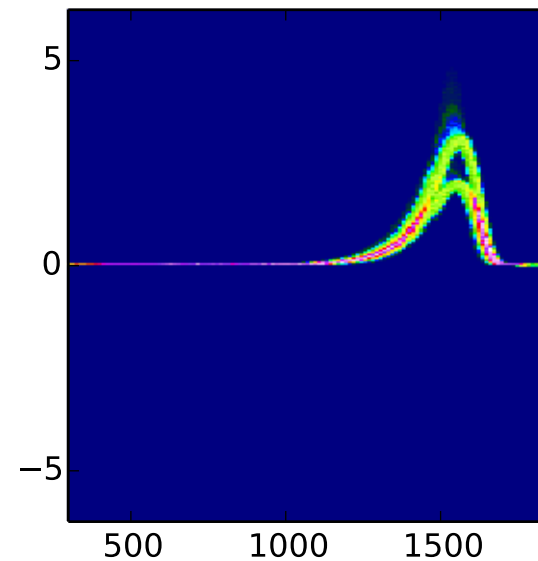
Curvature: -2000 : -1200



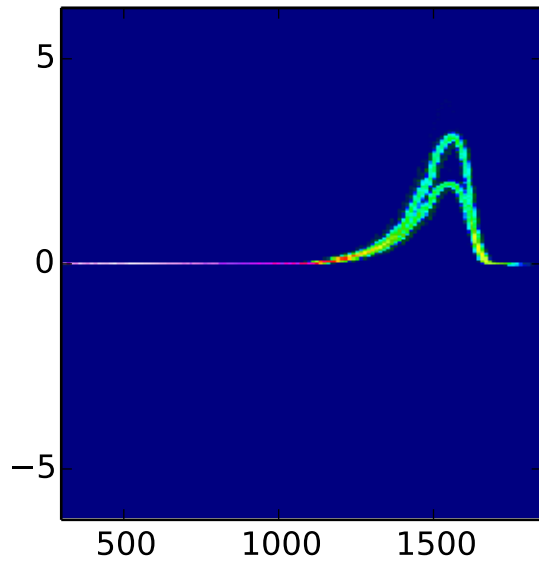
Curvature: -1200 : -400



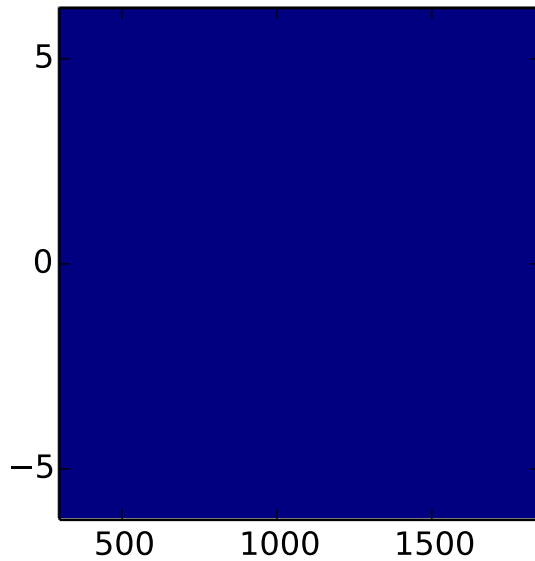
Curvature: -400 : 400



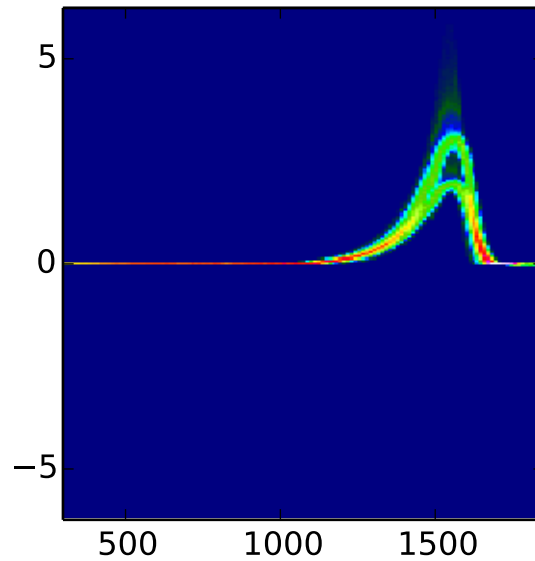
Curvature: 400 : 1200



Curvature: 1200 : 2000

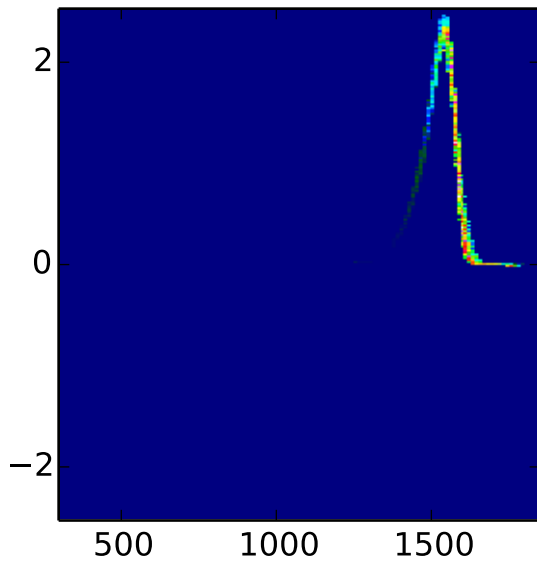


Sum

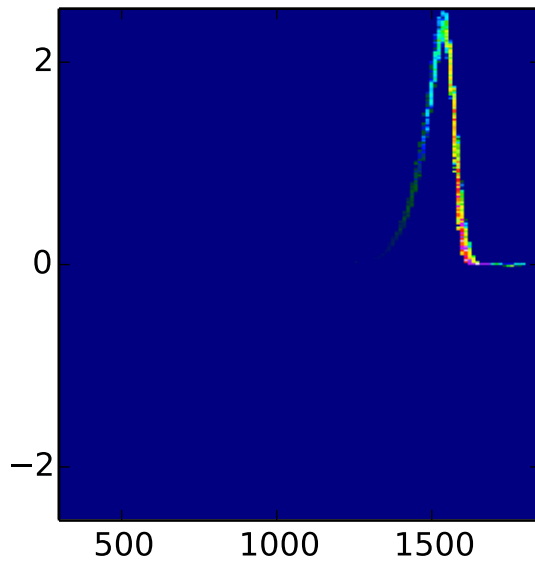


# Edge C2H3 $\rightleftharpoons$ CH2CO

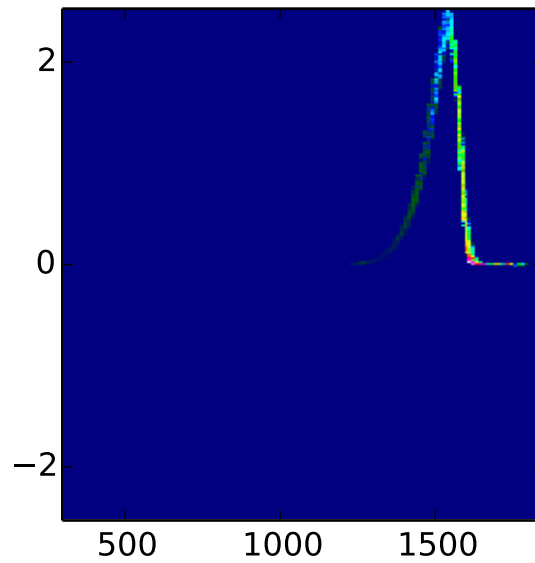
Curvature: -6000 : -5200



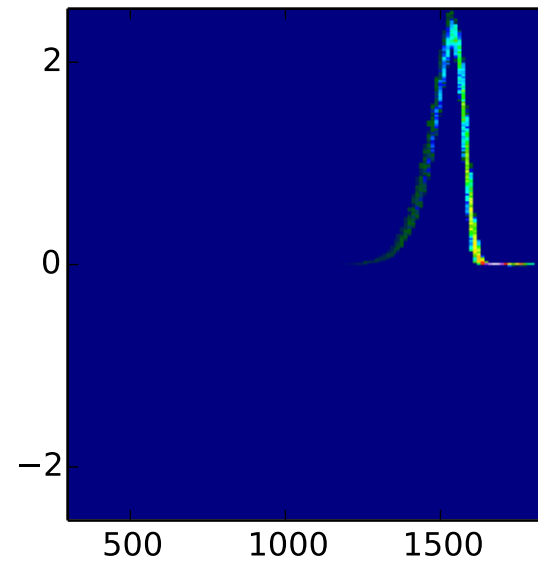
Curvature: -5200 : -4400



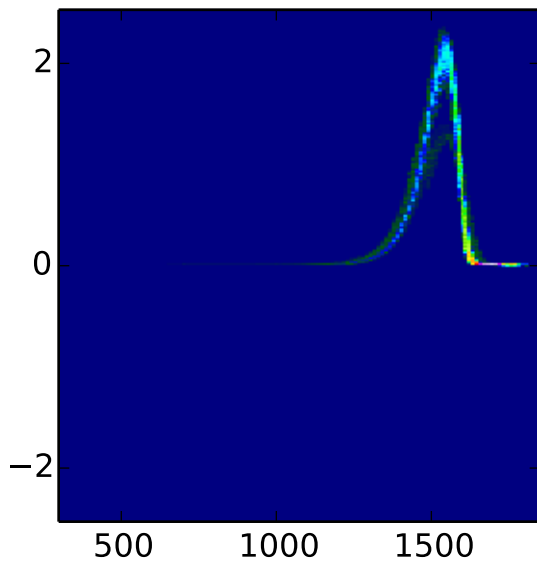
Curvature: -4400 : -3600



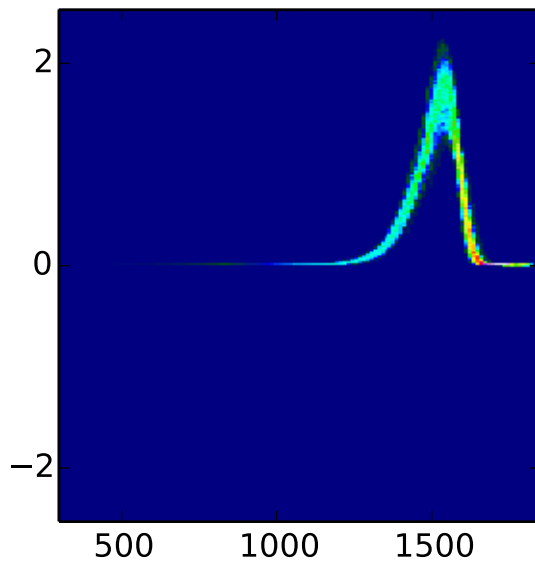
Curvature: -3600 : -2800



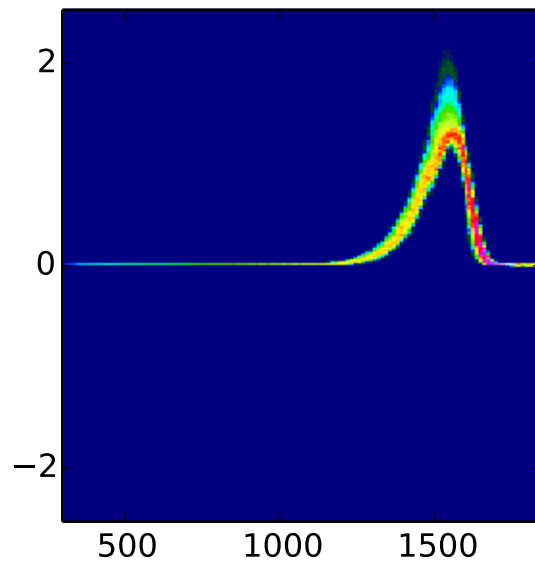
Curvature: -2800 : -2000



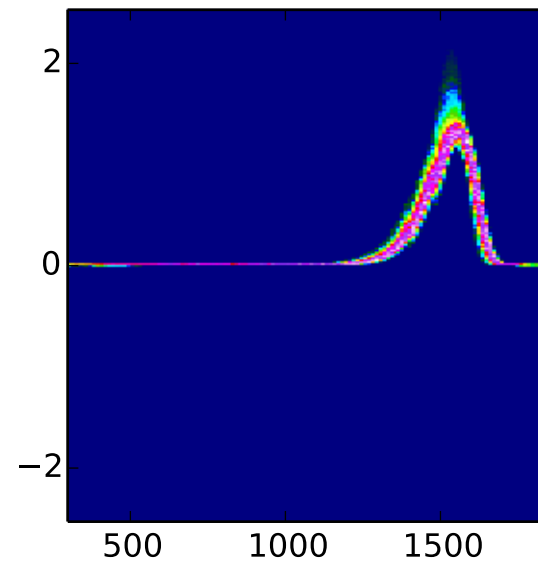
Curvature: -2000 : -1200



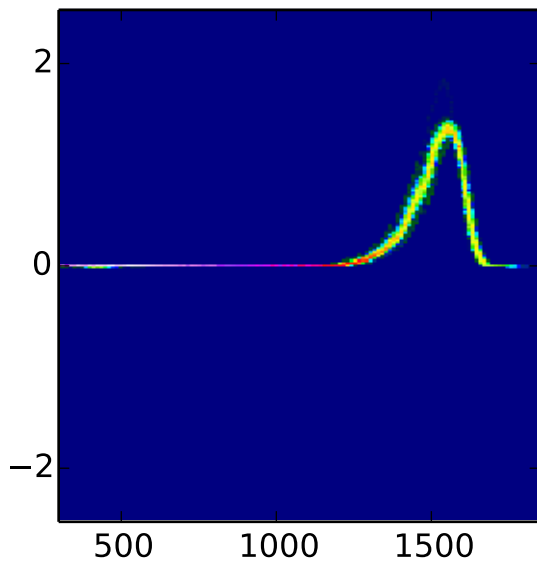
Curvature: -1200 : -400



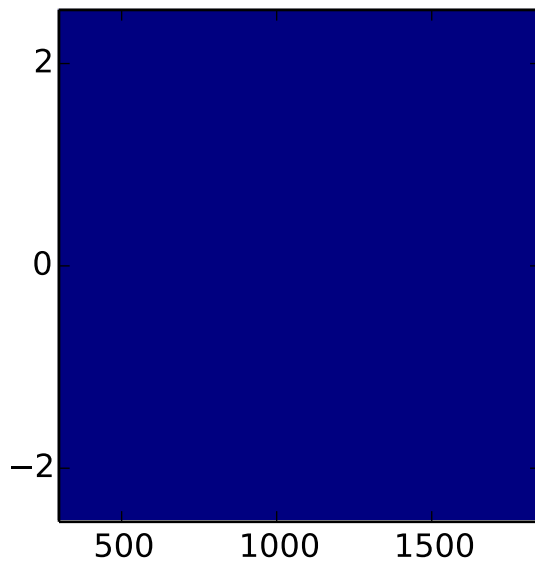
Curvature: -400 : 400



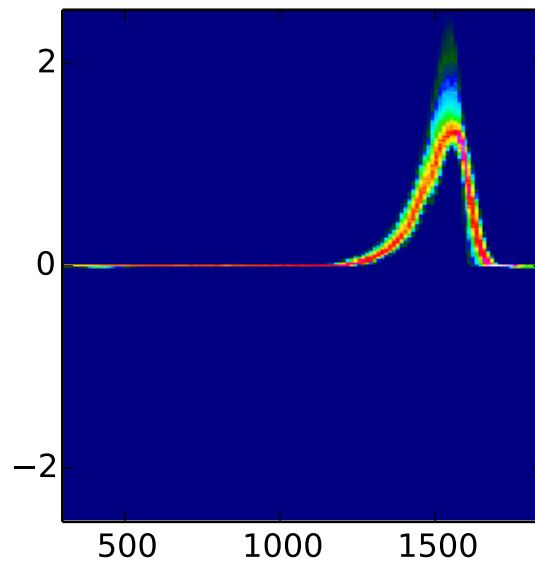
Curvature: 400 : 1200



Curvature: 1200 : 2000

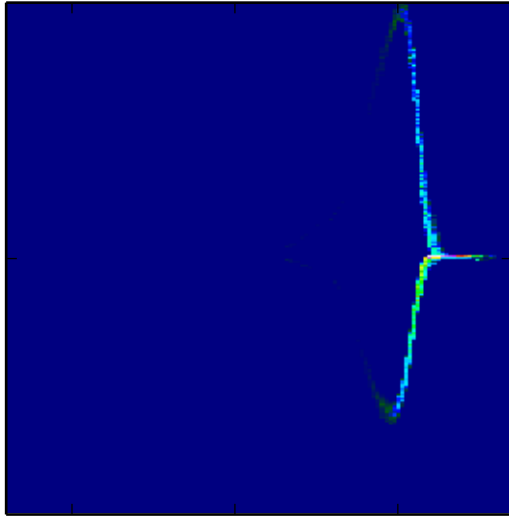


Sum

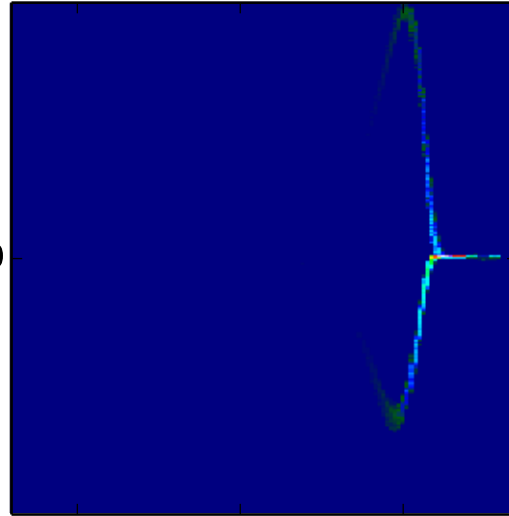


# Edge C2H4 $\rightleftharpoons$ CH3

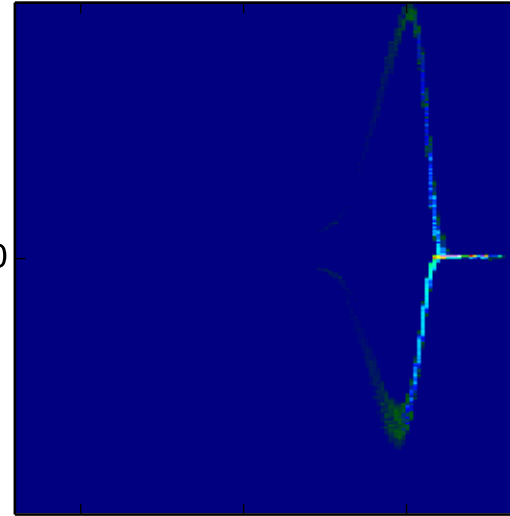
Curvature: -6000 : -5200



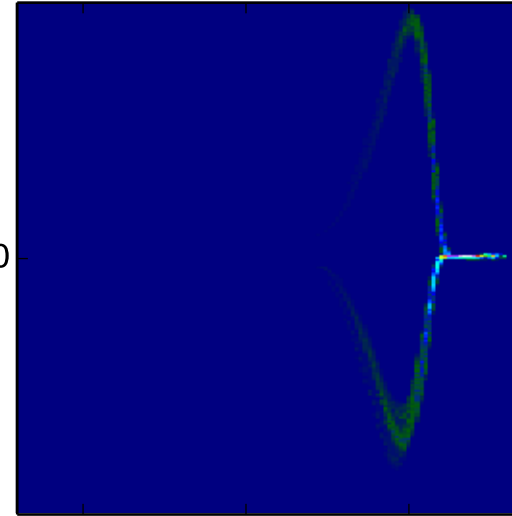
Curvature: -5200 : -4400



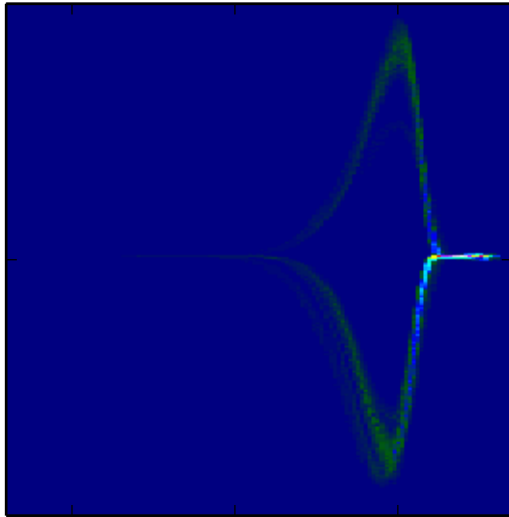
Curvature: -4400 : -3600



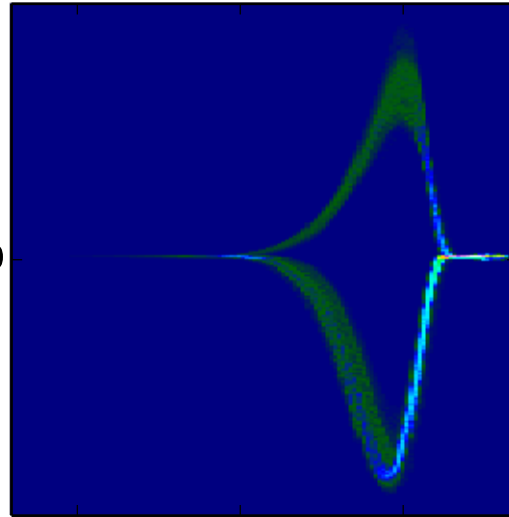
Curvature: -3600 : -2800



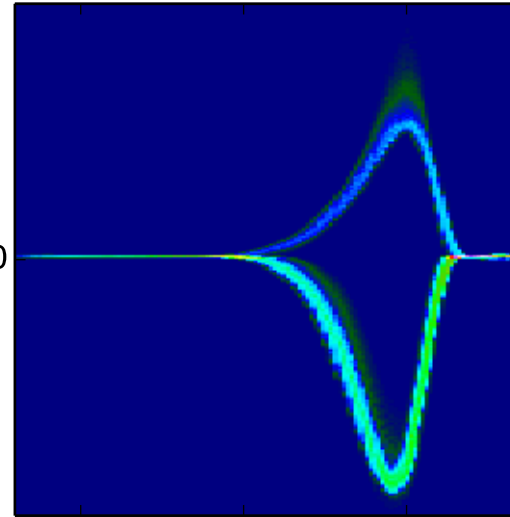
Curvature: -2800 : -2000



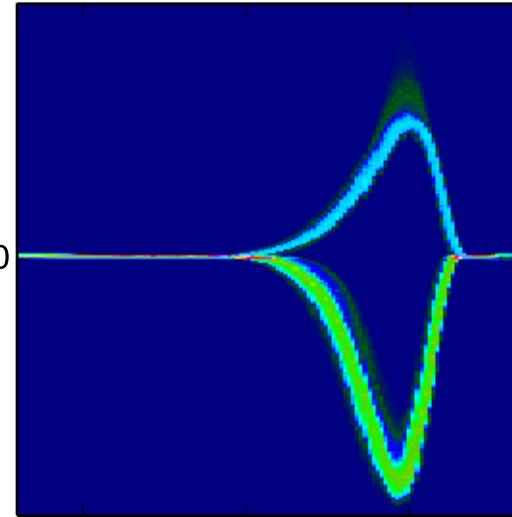
Curvature: -2000 : -1200



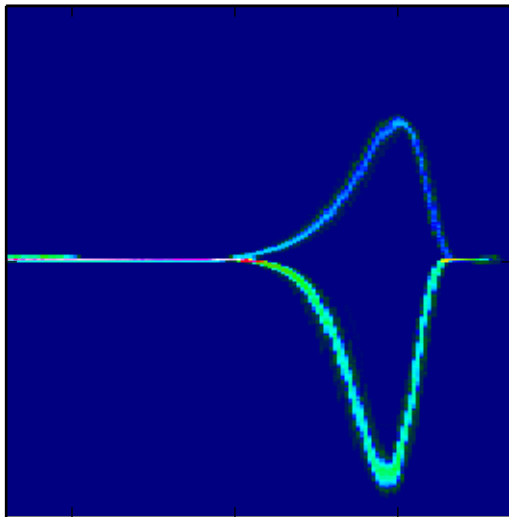
Curvature: -1200 : -400



Curvature: -400 : 400



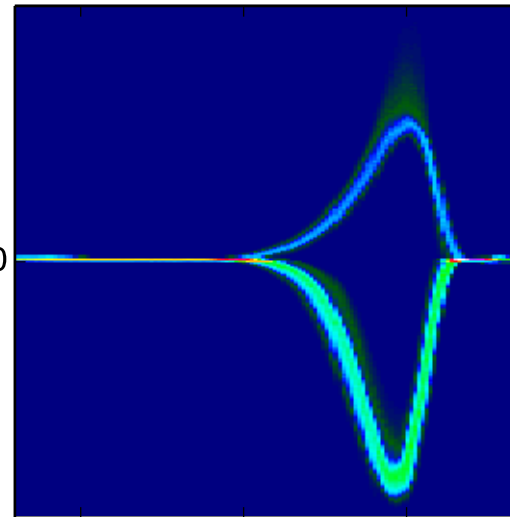
Curvature: 400 : 1200



Curvature: 1200 : 2000

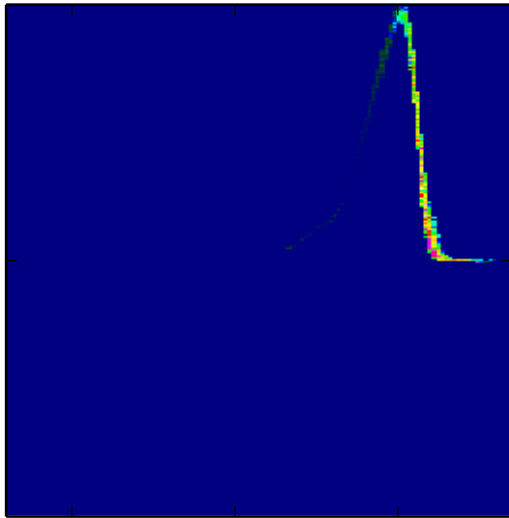


Sum

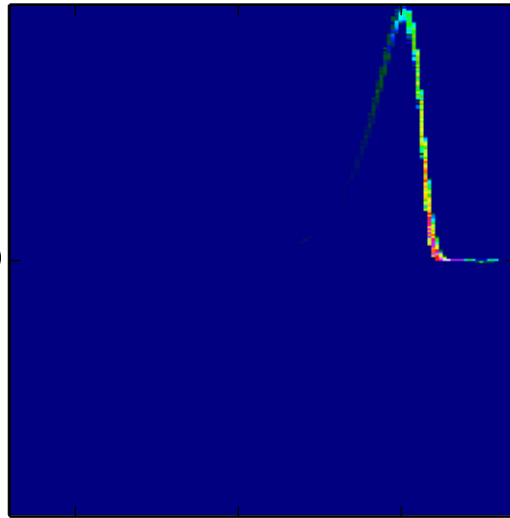


# Edge C2H4 $\rightleftharpoons$ HCO

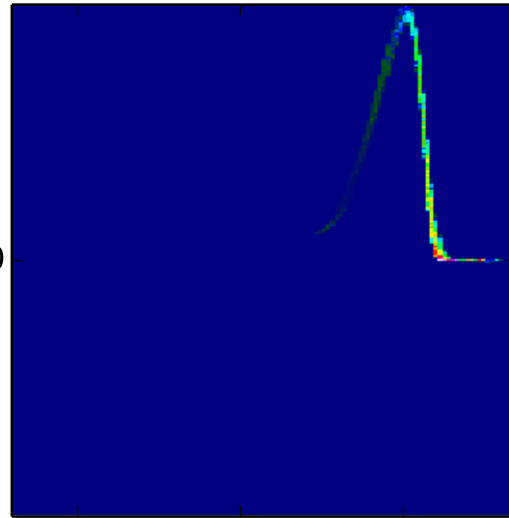
Curvature: -6000 : -5200



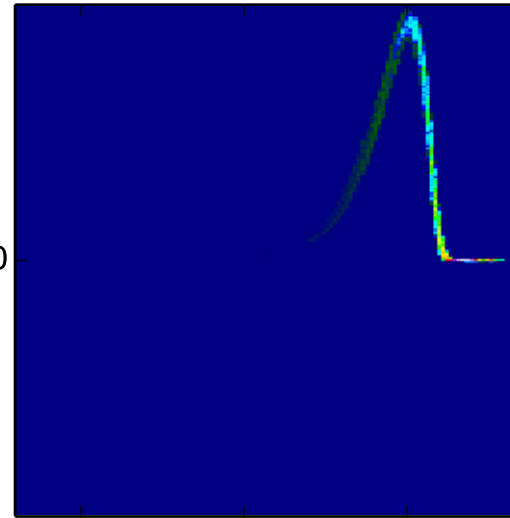
Curvature: -5200 : -4400



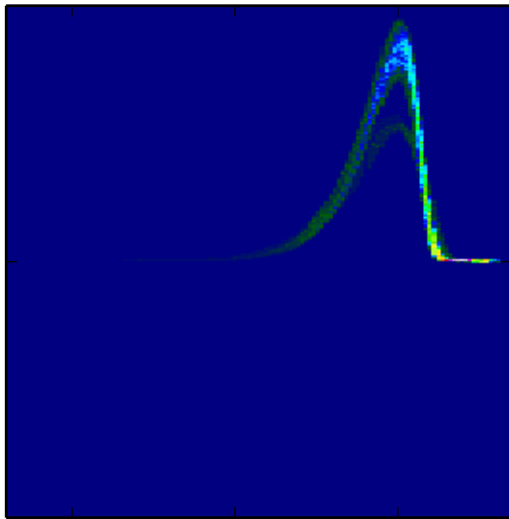
Curvature: -4400 : -3600



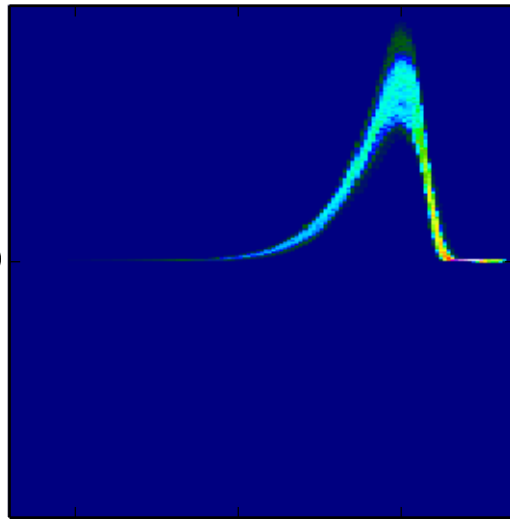
Curvature: -3600 : -2800



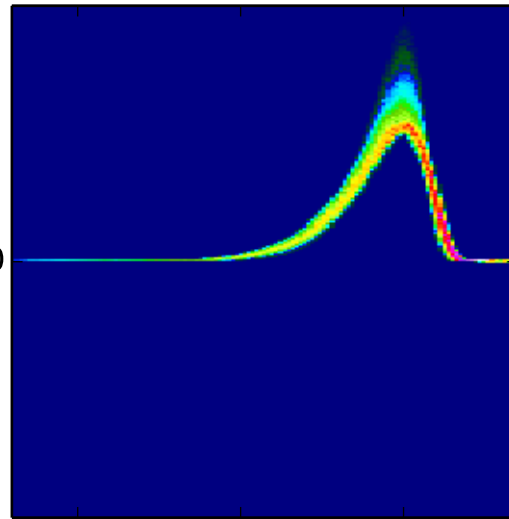
Curvature: -2800 : -2000



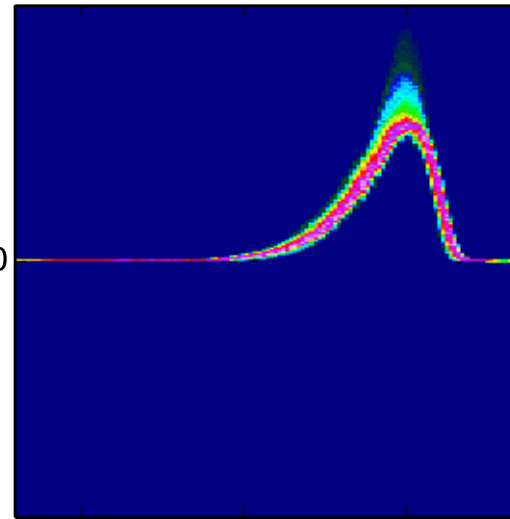
Curvature: -2000 : -1200



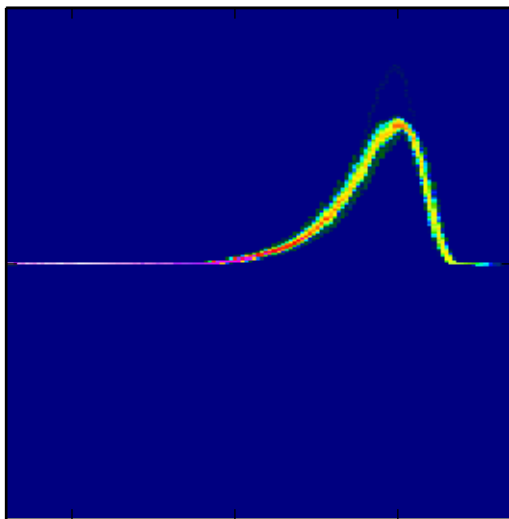
Curvature: -1200 : -400



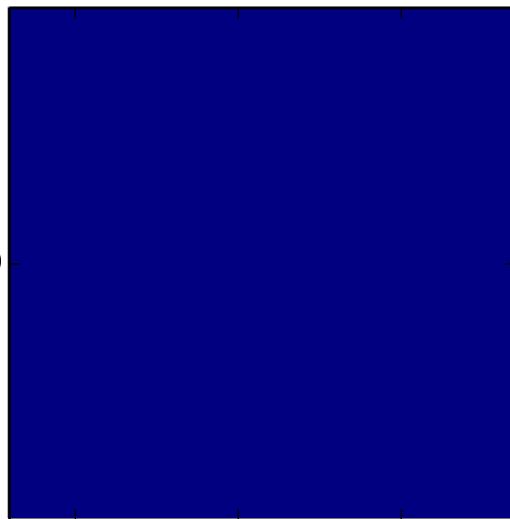
Curvature: -400 : 400



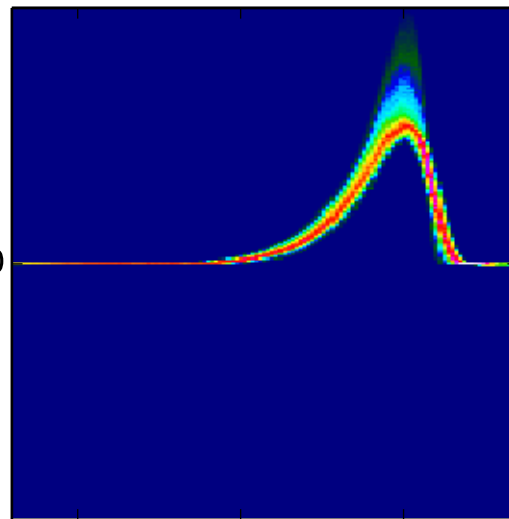
Curvature: 400 : 1200



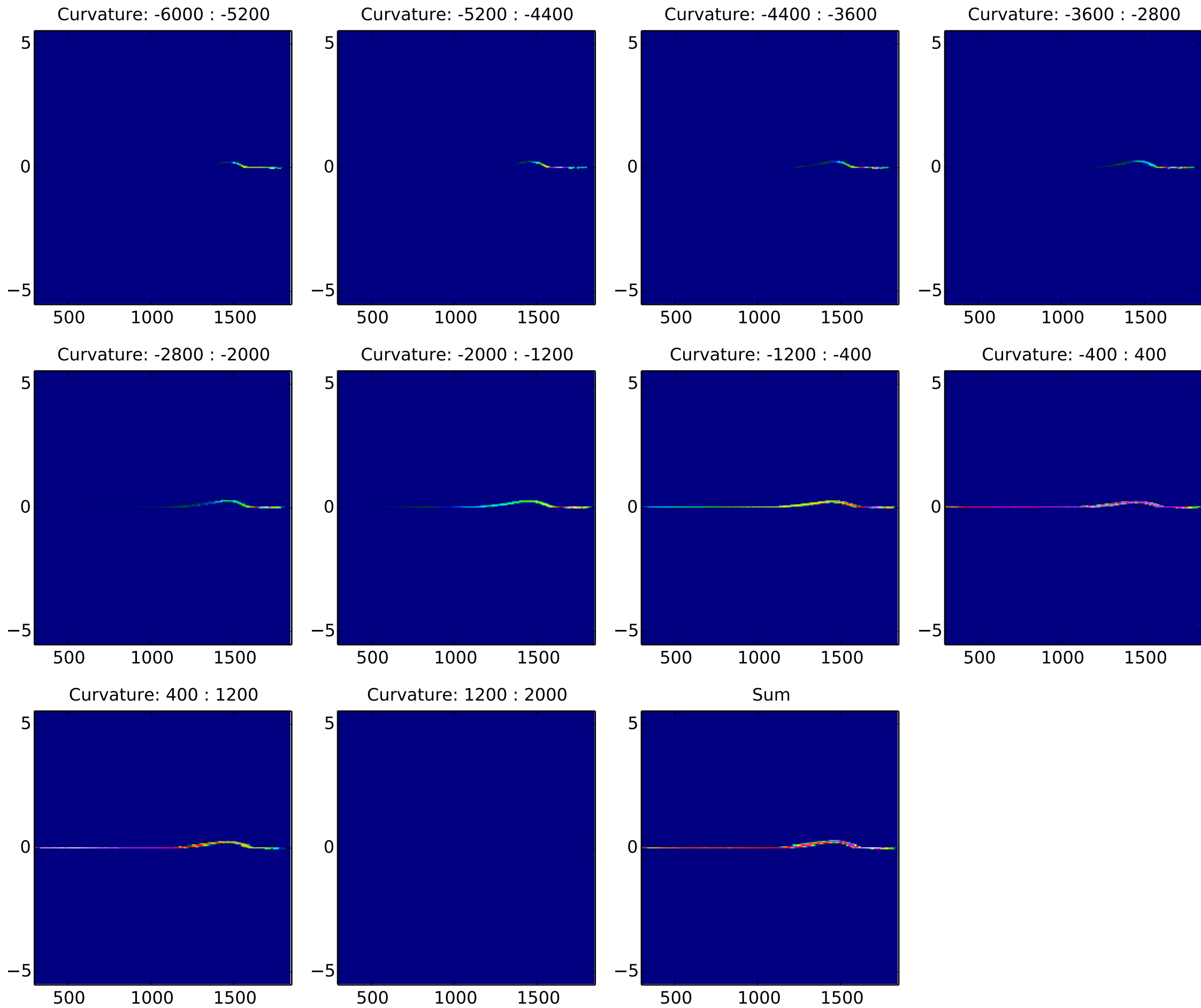
Curvature: 1200 : 2000



Sum

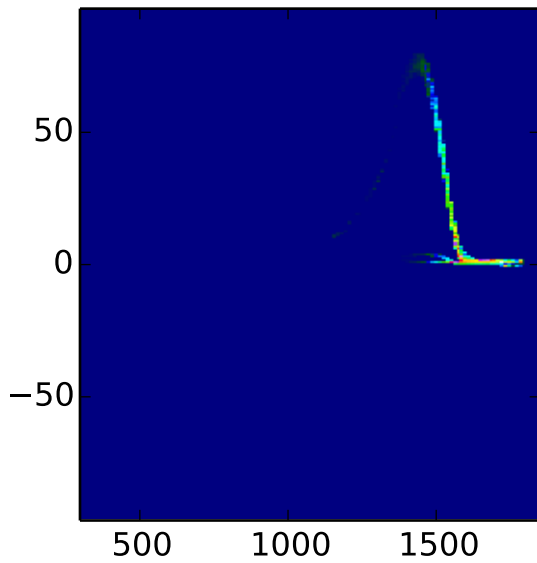


# Edge C2H5 $\rightleftharpoons$ CH2O

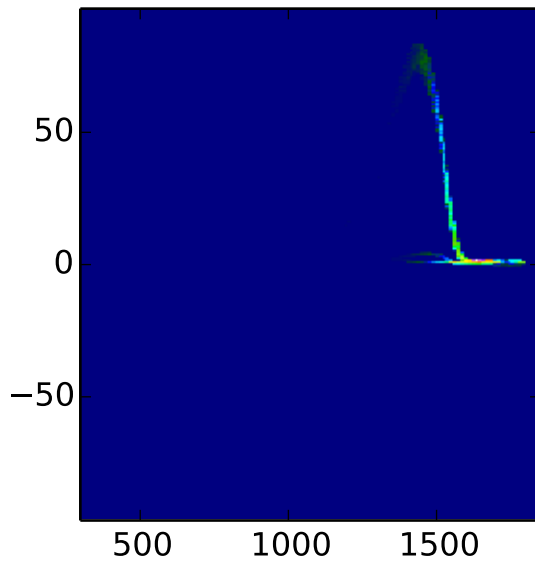


# Edge C2H5 $\rightleftharpoons$ CH3

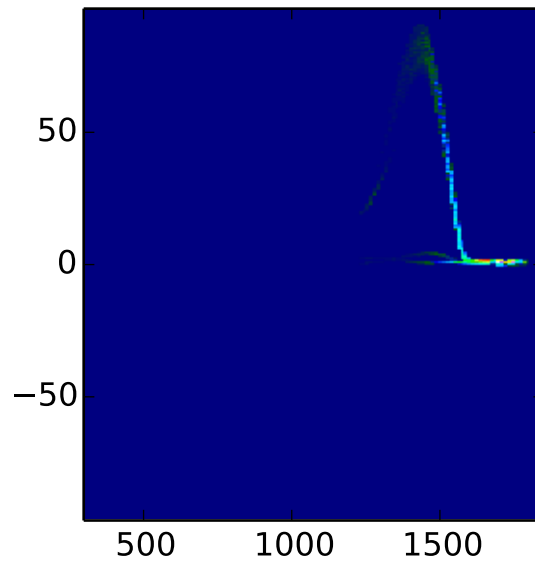
Curvature: -6000 : -5200



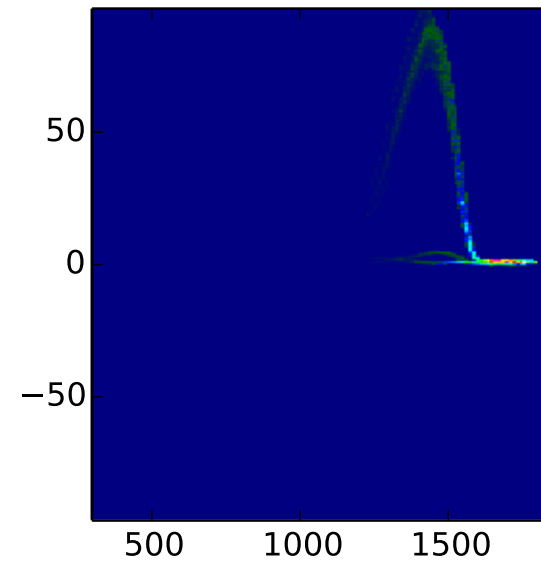
Curvature: -5200 : -4400



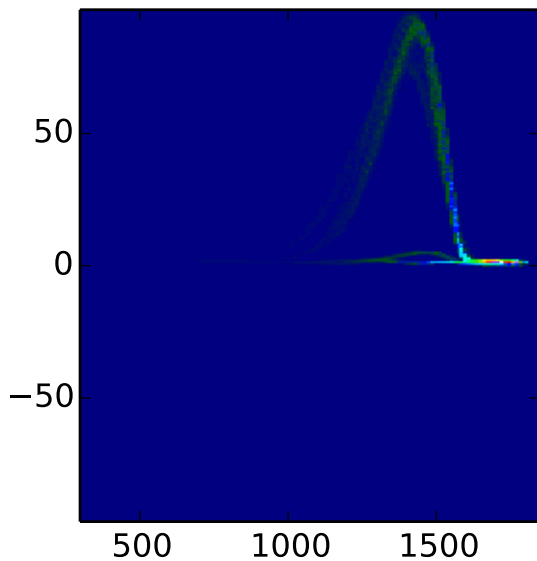
Curvature: -4400 : -3600



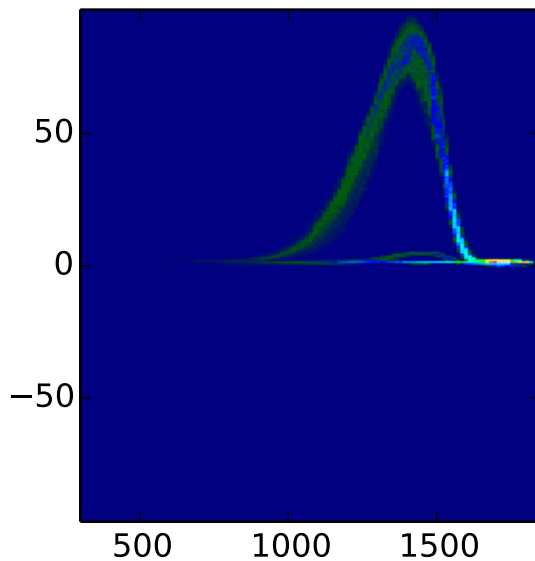
Curvature: -3600 : -2800



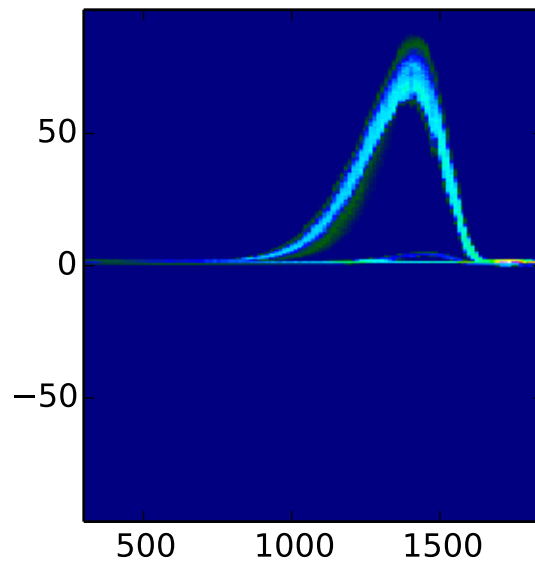
Curvature: -2800 : -2000



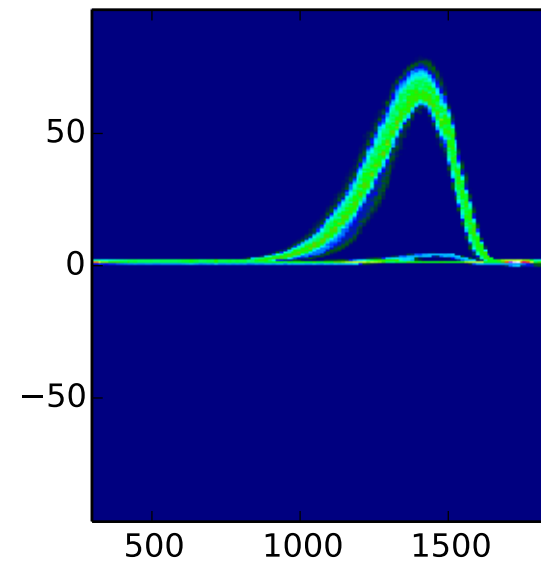
Curvature: -2000 : -1200



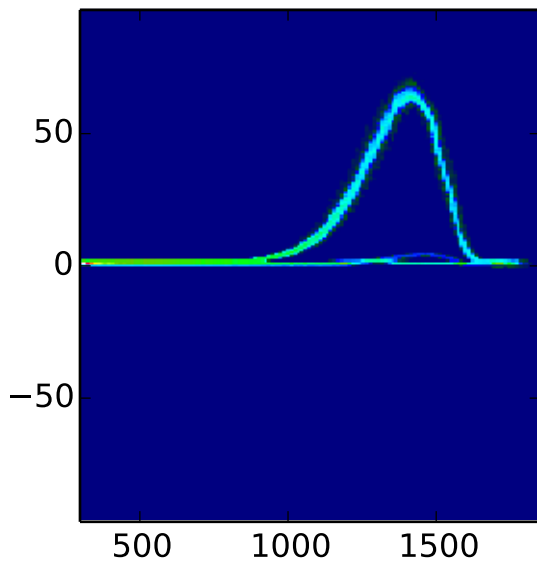
Curvature: -1200 : -400



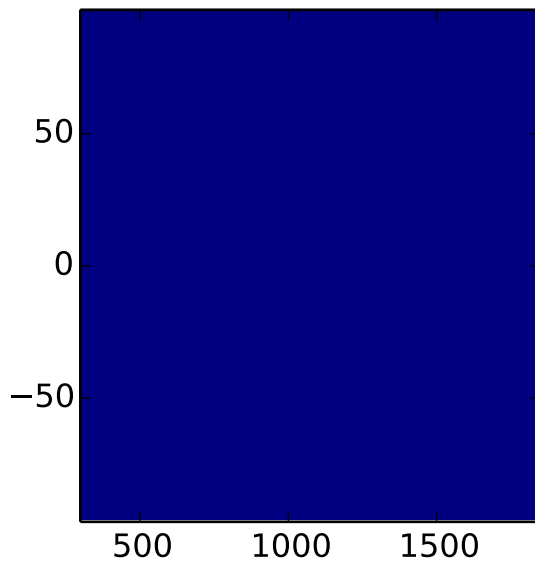
Curvature: -400 : 400



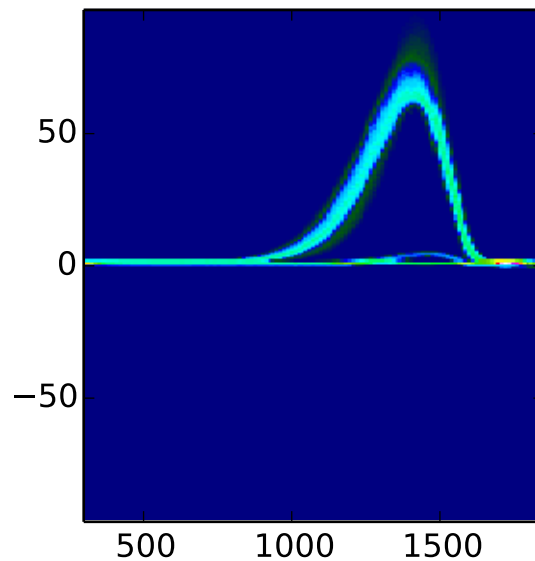
Curvature: 400 : 1200



Curvature: 1200 : 2000

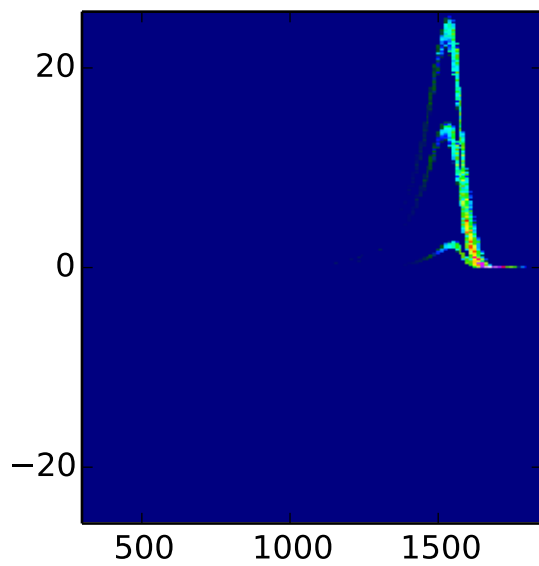


Sum

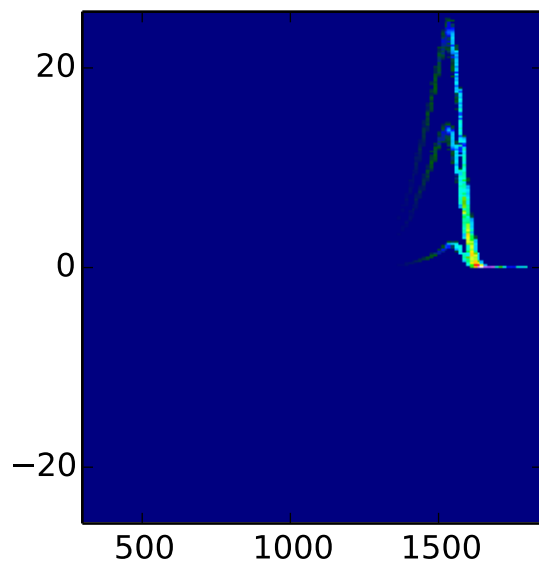


# Edge CH<sub>2</sub>CO $\rightleftharpoons$ HCCO

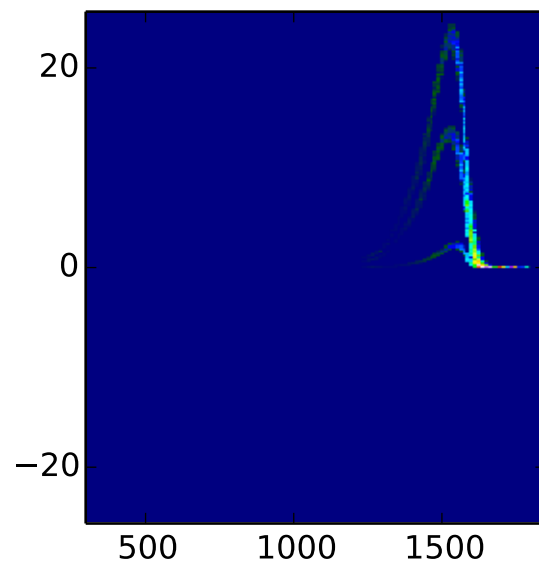
Curvature: -6000 : -5200



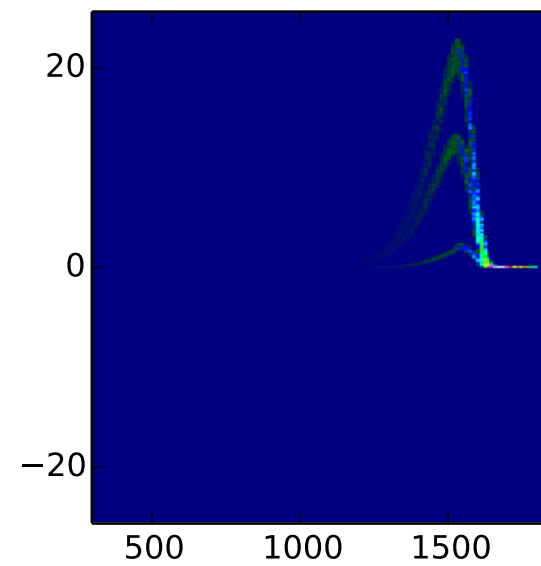
Curvature: -5200 : -4400



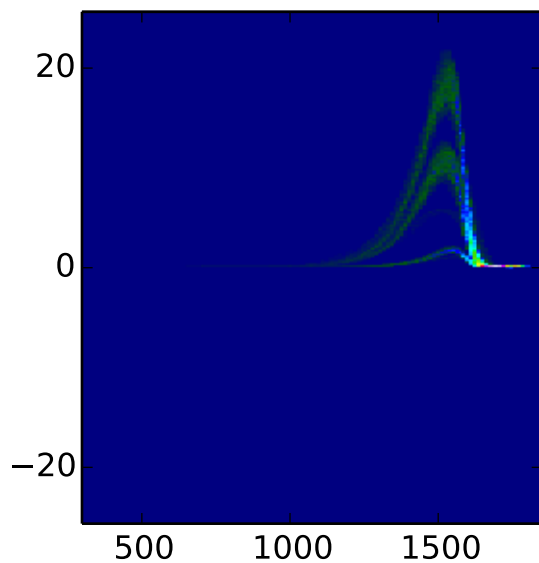
Curvature: -4400 : -3600



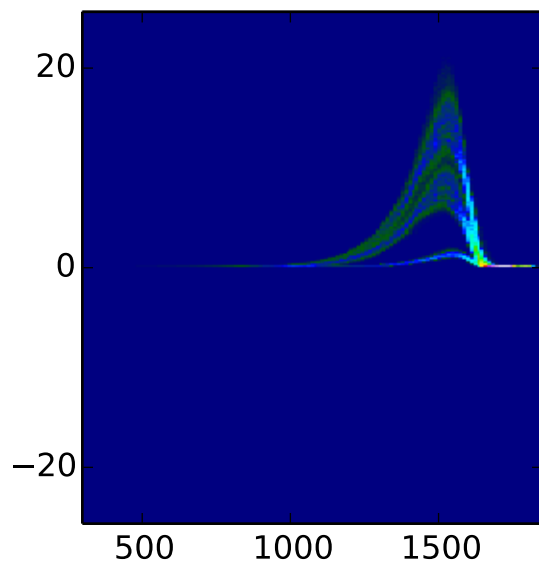
Curvature: -3600 : -2800



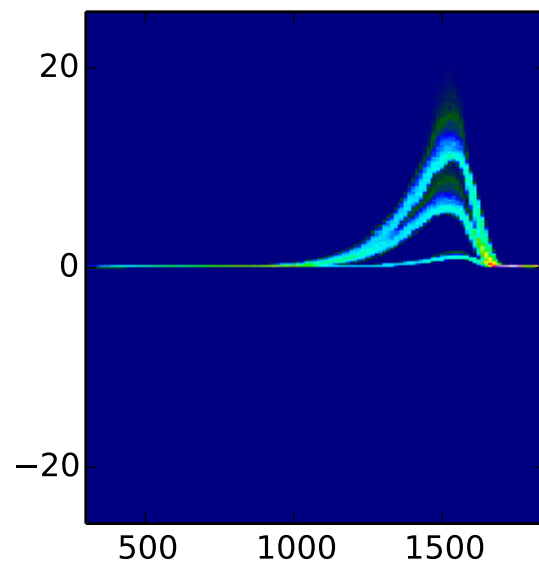
Curvature: -2800 : -2000



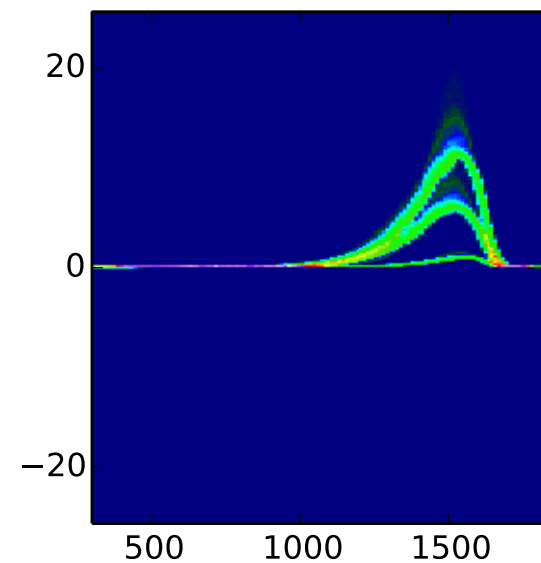
Curvature: -2000 : -1200



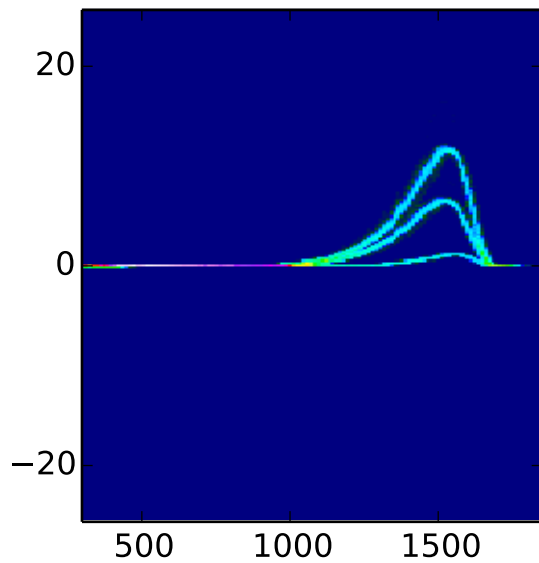
Curvature: -1200 : -400



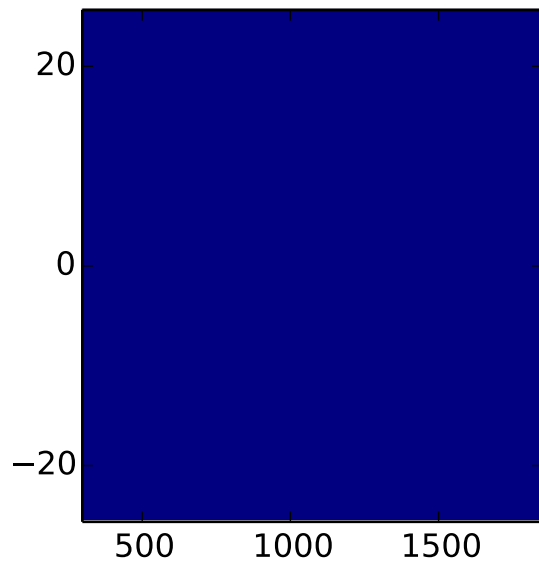
Curvature: -400 : 400



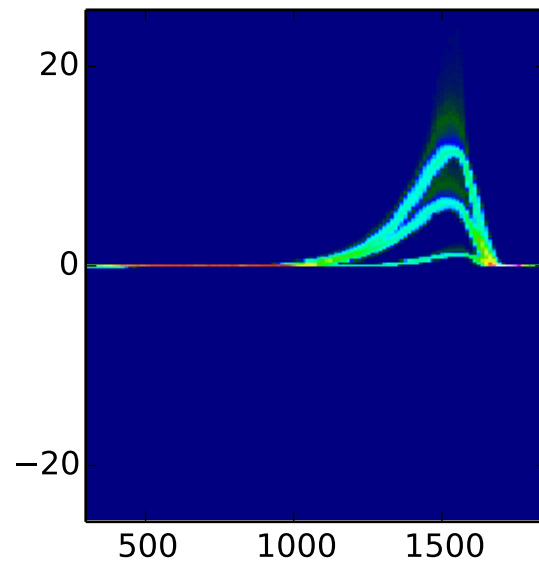
Curvature: 400 : 1200



Curvature: 1200 : 2000

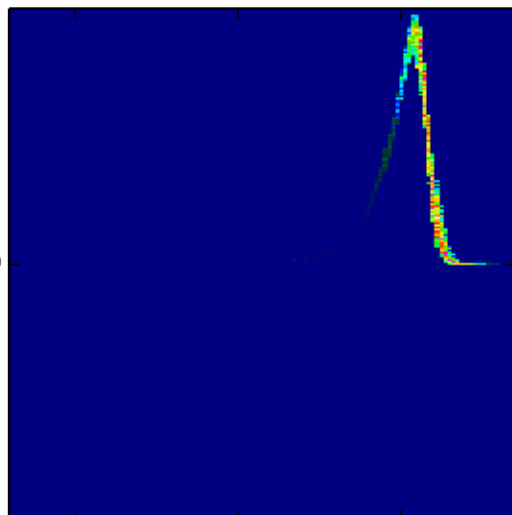


Sum

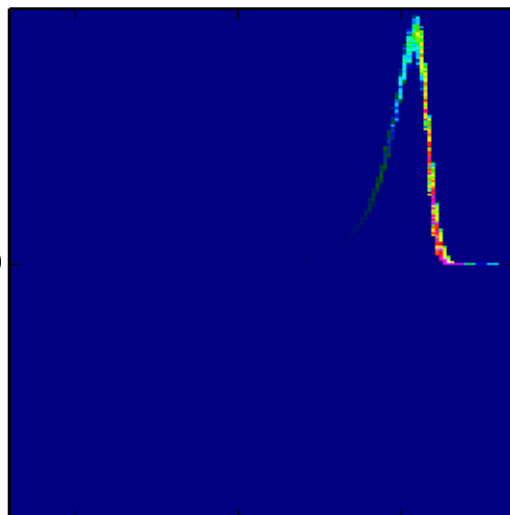


# Edge CH<sub>2</sub>CO $\rightleftharpoons$ CO<sub>2</sub>

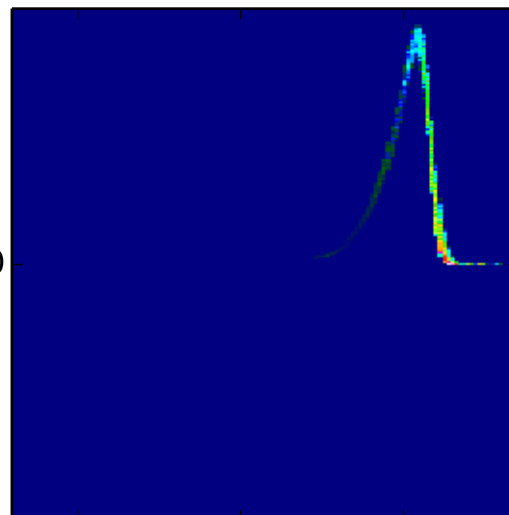
Curvature: -6000 : -5200



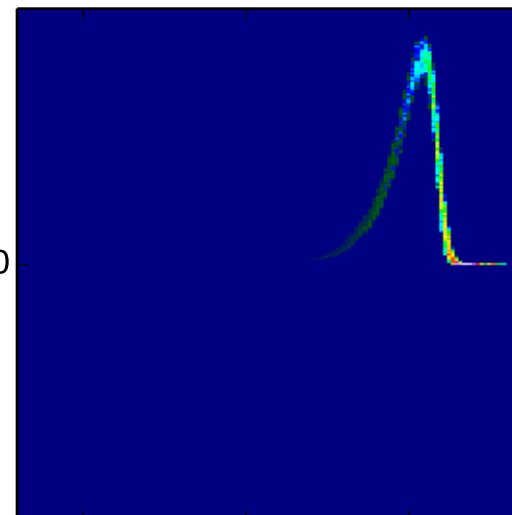
Curvature: -5200 : -4400



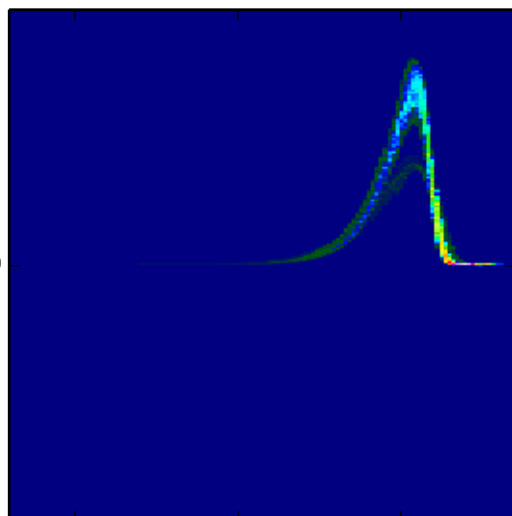
Curvature: -4400 : -3600



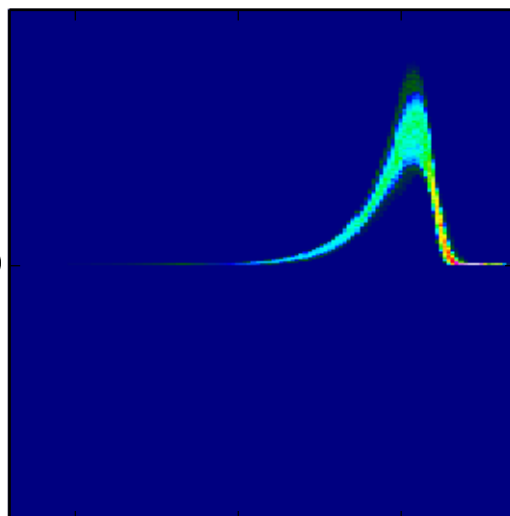
Curvature: -3600 : -2800



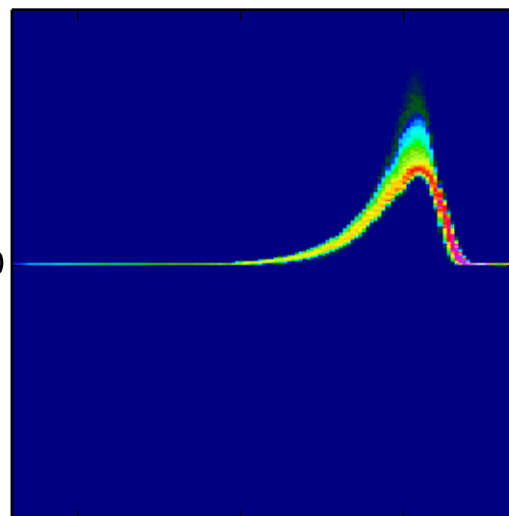
Curvature: -2800 : -2000



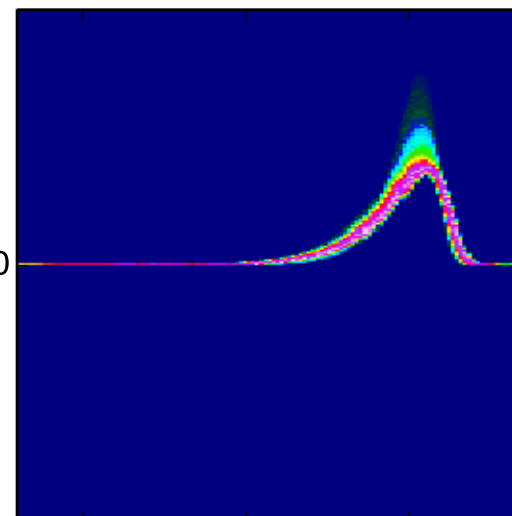
Curvature: -2000 : -1200



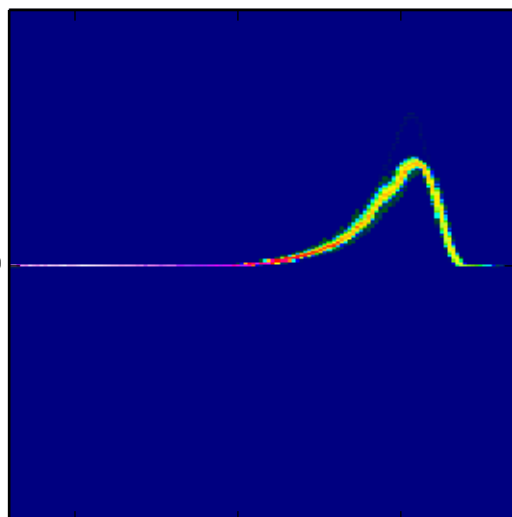
Curvature: -1200 : -400



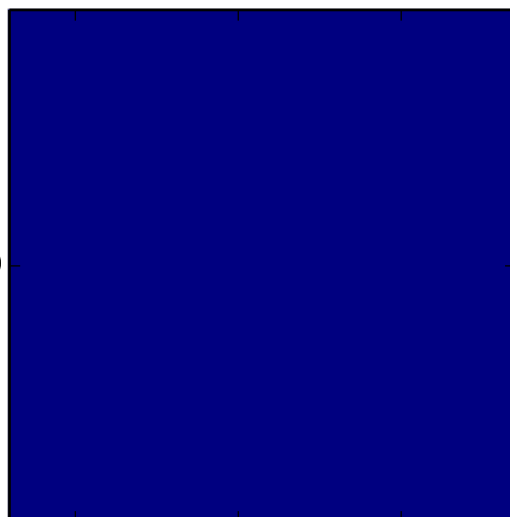
Curvature: -400 : 400



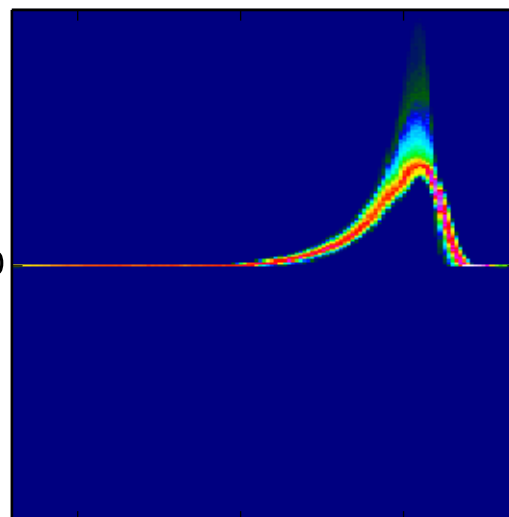
Curvature: 400 : 1200



Curvature: 1200 : 2000



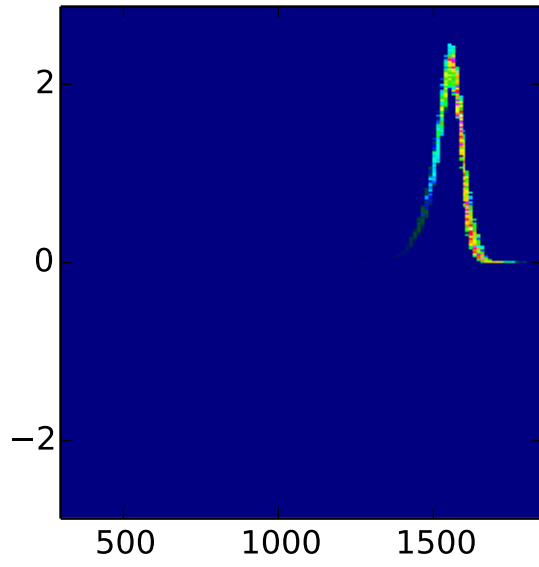
Sum



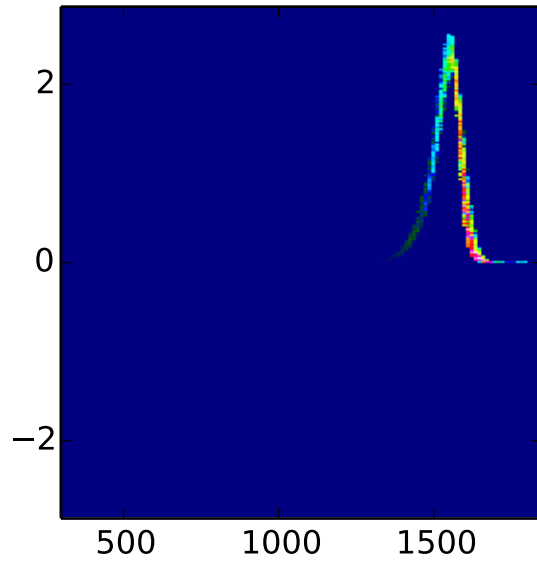


# Edge CH $\Leftrightarrow$ C

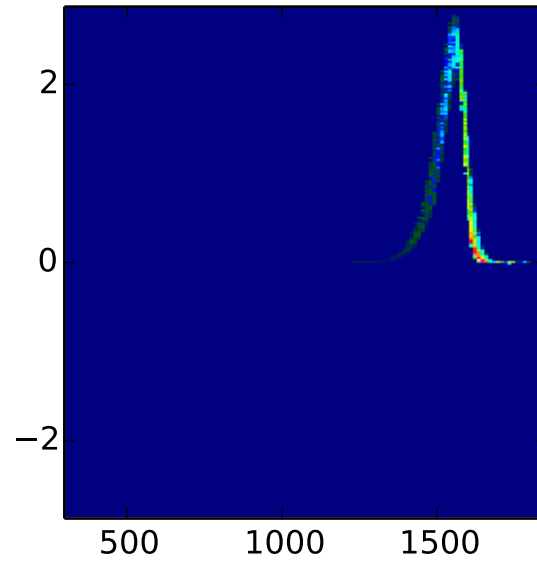
Curvature: -6000 : -5200



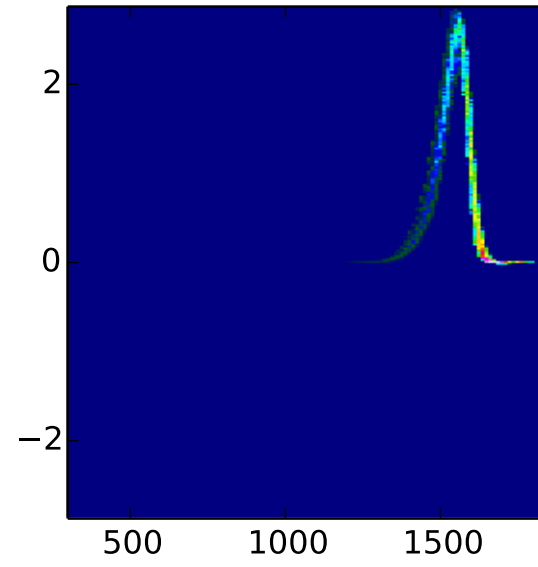
Curvature: -5200 : -4400



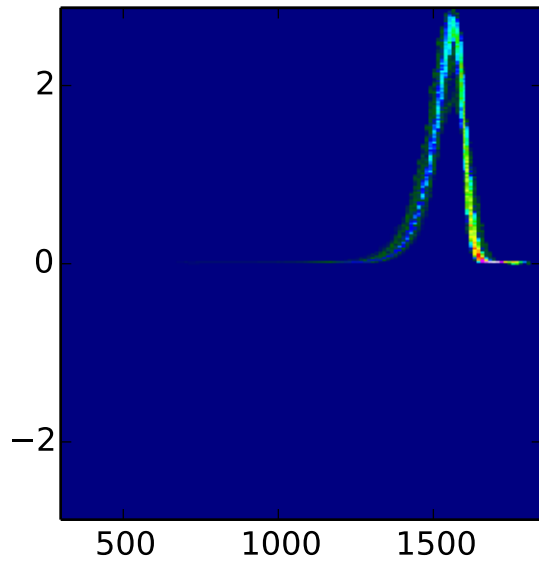
Curvature: -4400 : -3600



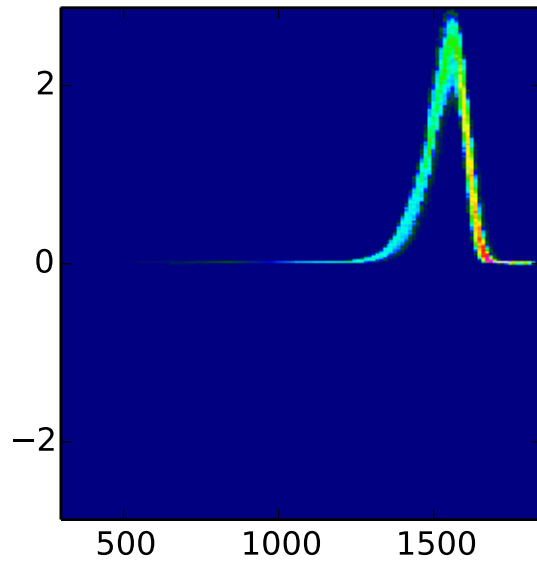
Curvature: -3600 : -2800



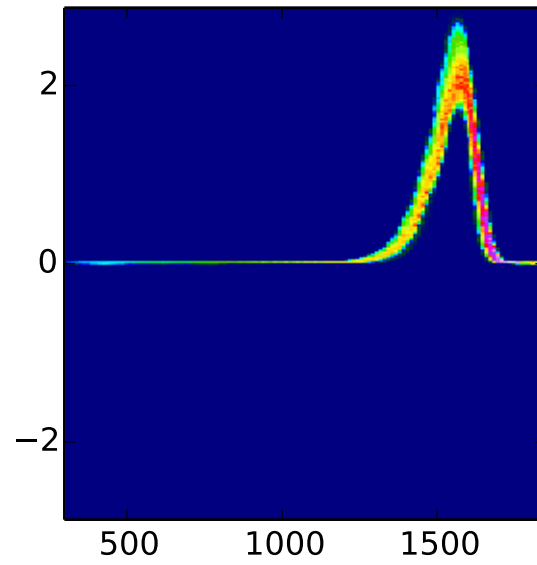
Curvature: -2800 : -2000



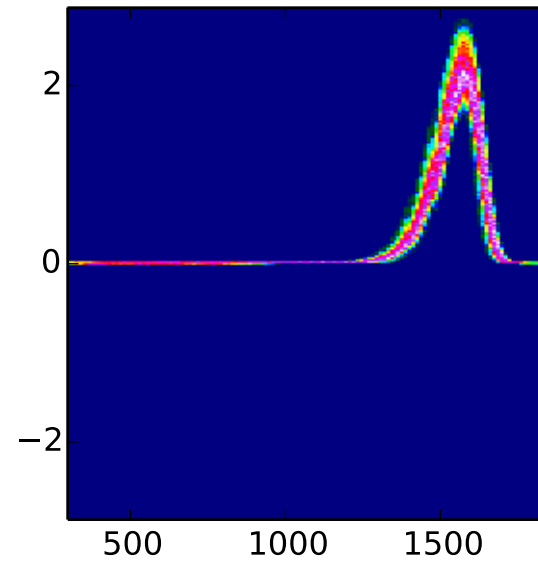
Curvature: -2000 : -1200



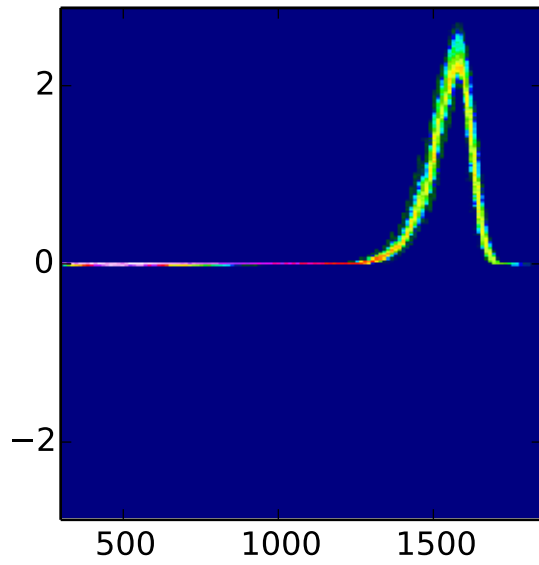
Curvature: -1200 : -400



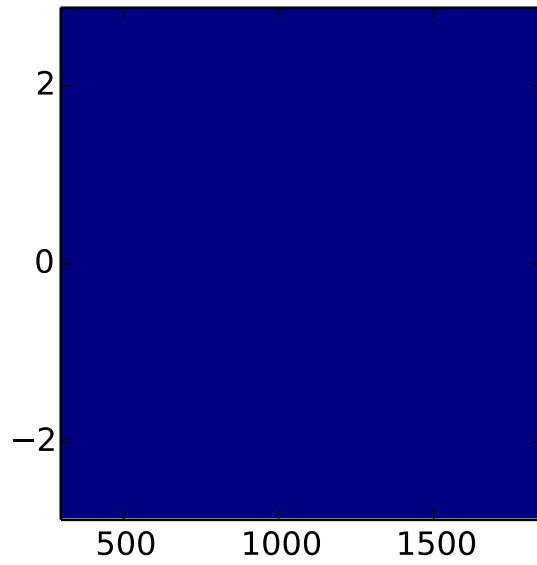
Curvature: -400 : 400



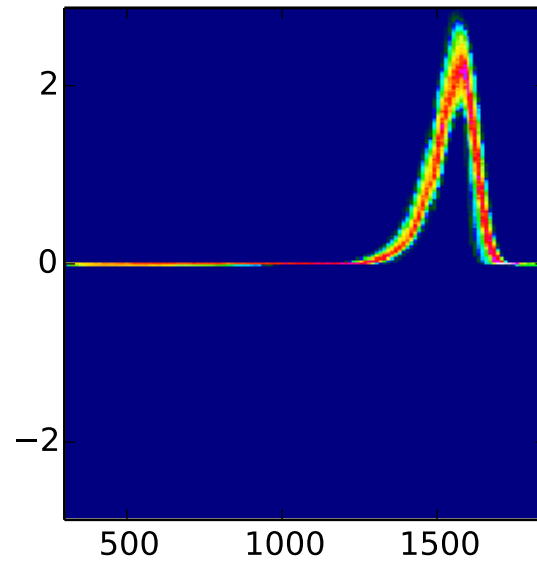
Curvature: 400 : 1200



Curvature: 1200 : 2000

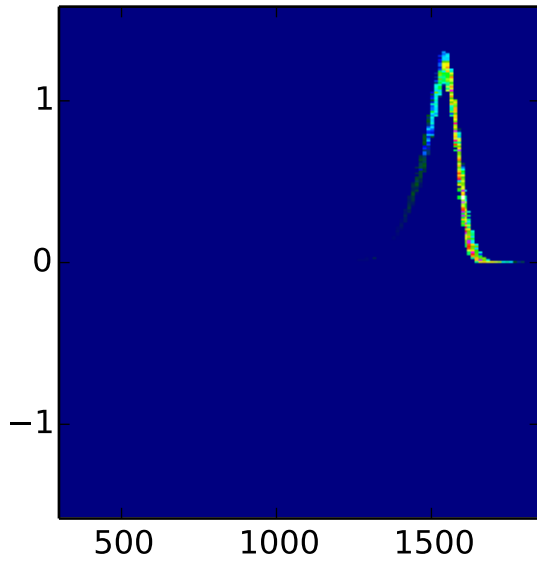


Sum

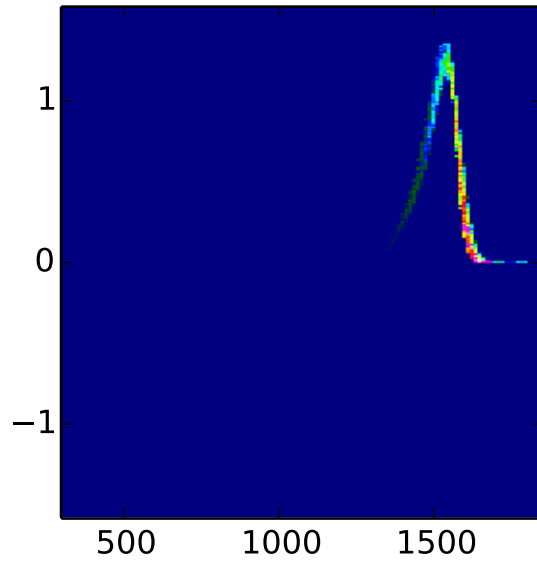


# Edge CH<sub>2</sub>(S) $\rightleftharpoons$ CH

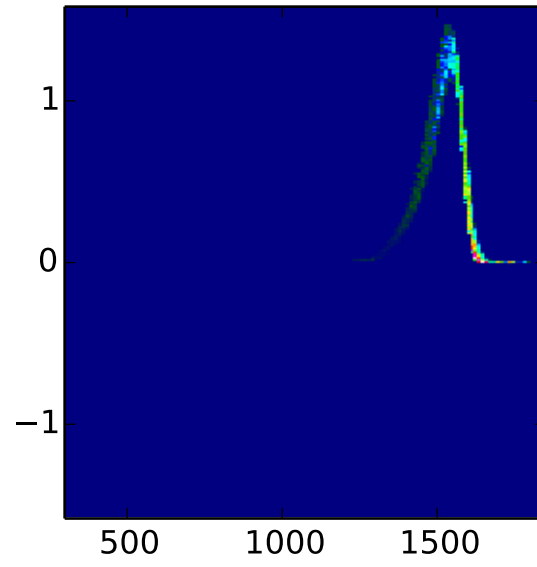
Curvature: -6000 : -5200



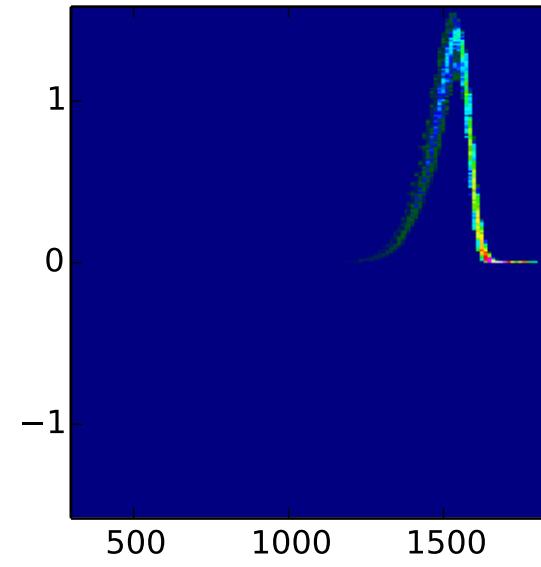
Curvature: -5200 : -4400



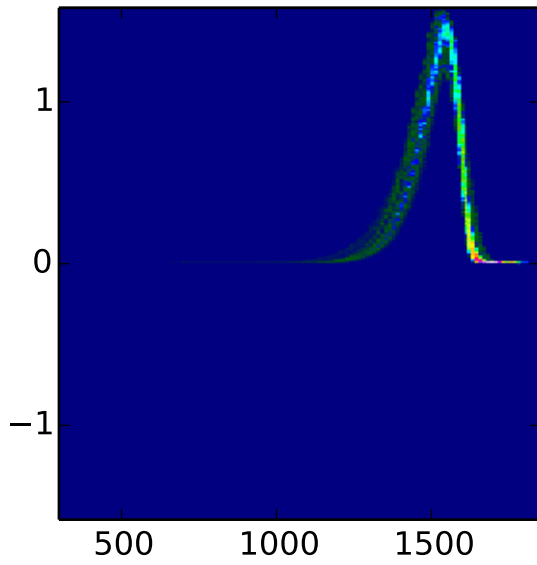
Curvature: -4400 : -3600



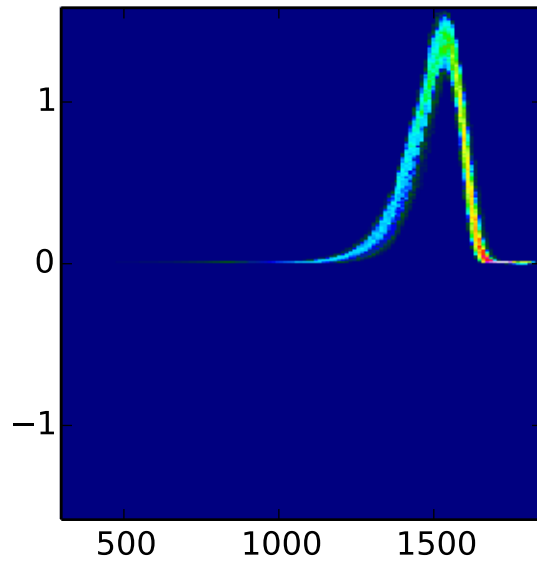
Curvature: -3600 : -2800



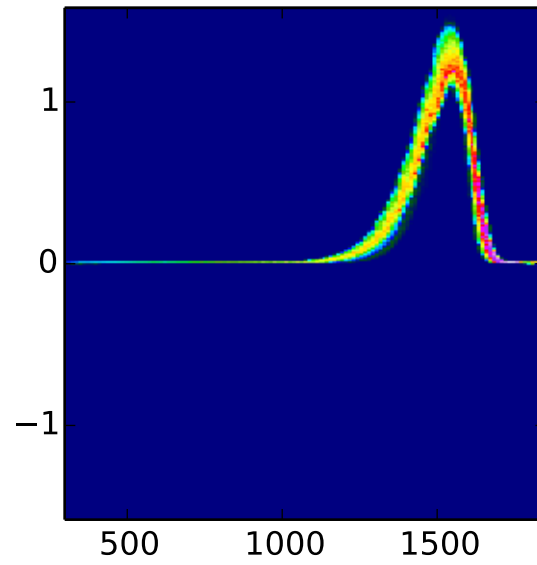
Curvature: -2800 : -2000



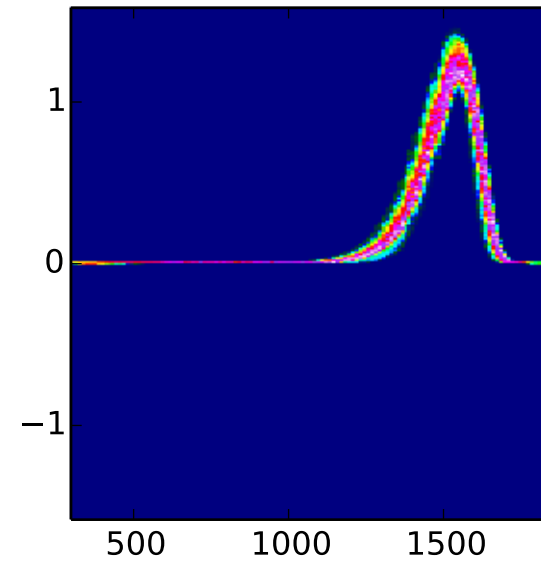
Curvature: -2000 : -1200



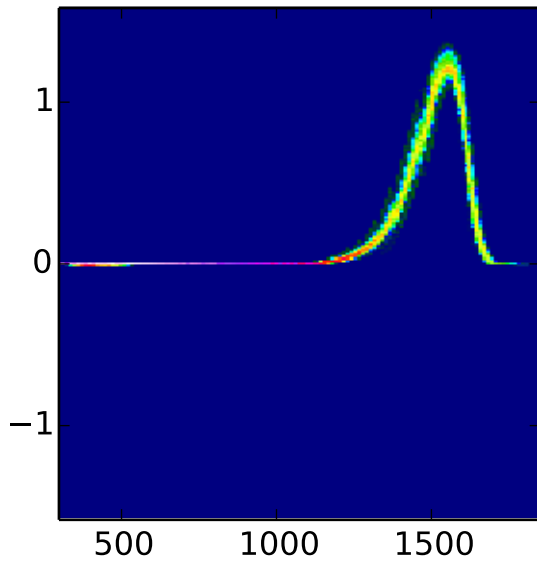
Curvature: -1200 : -400



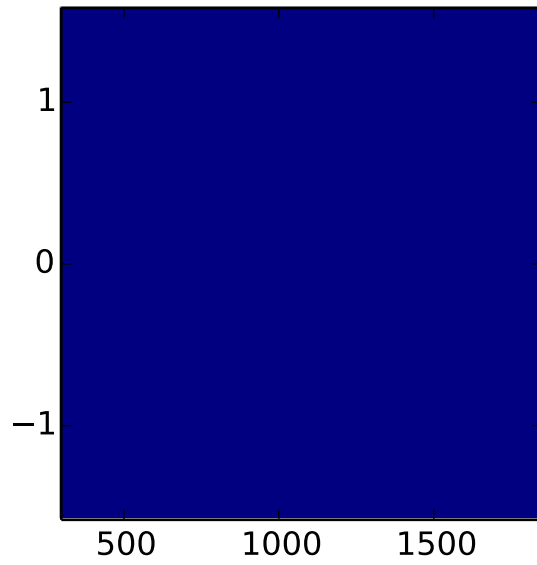
Curvature: -400 : 400



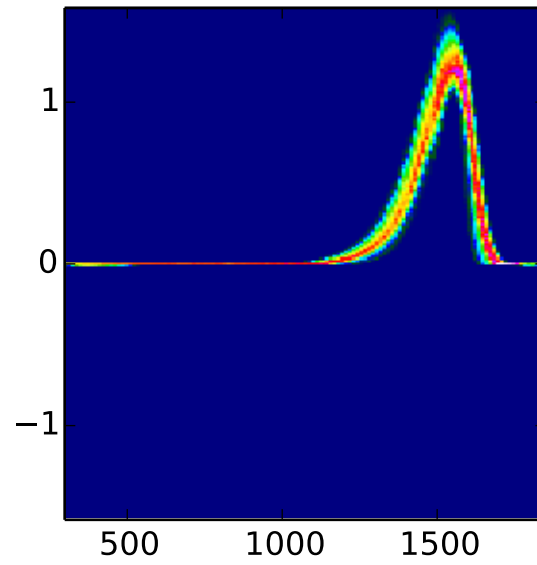
Curvature: 400 : 1200



Curvature: 1200 : 2000

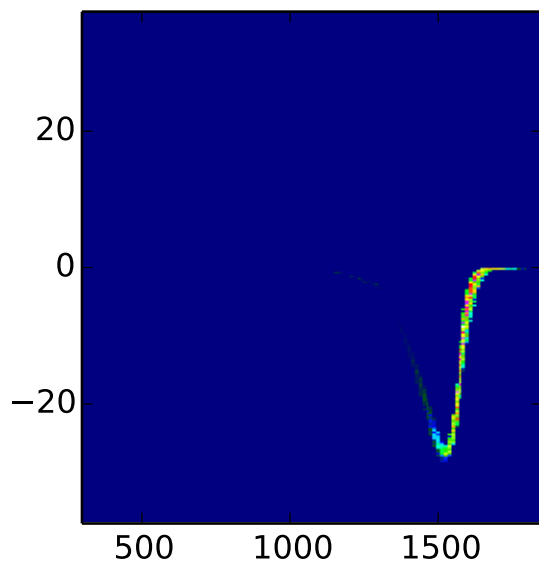


Sum

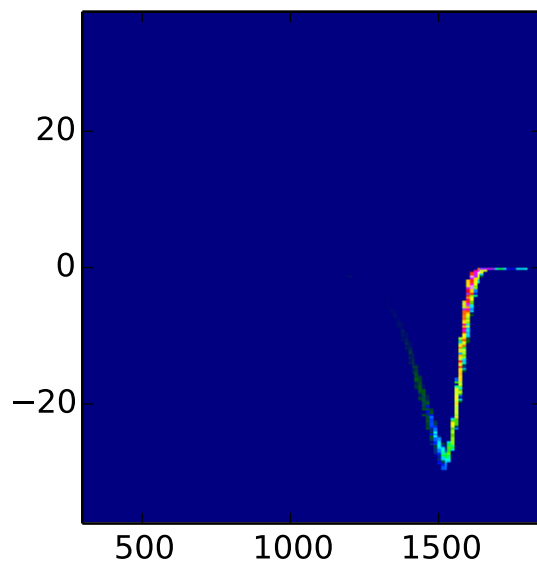


# Edge CH<sub>2</sub>OH $\rightleftharpoons$ CH<sub>3</sub>

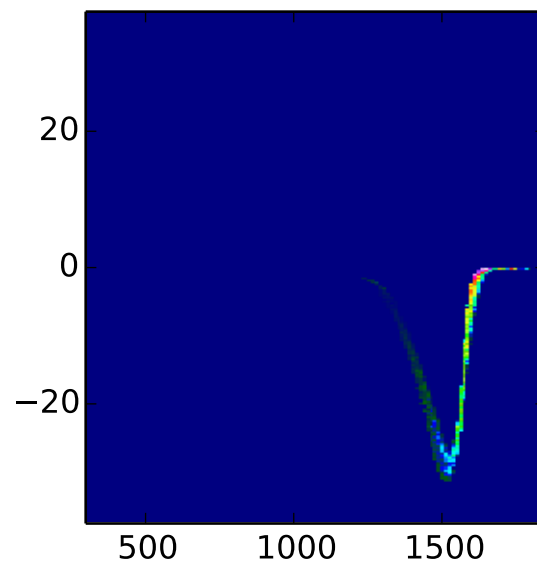
Curvature: -6000 : -5200



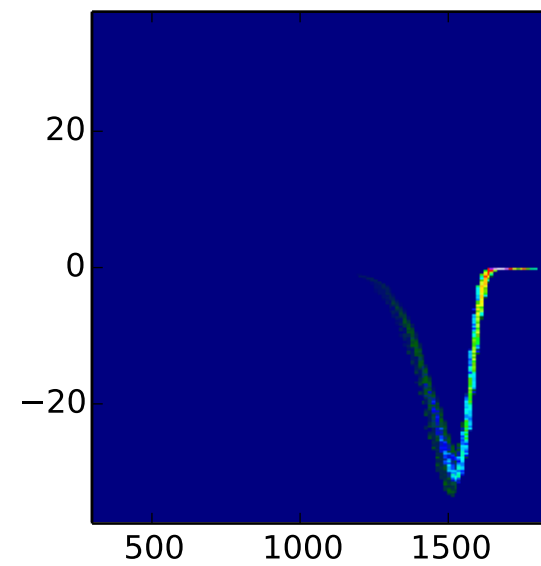
Curvature: -5200 : -4400



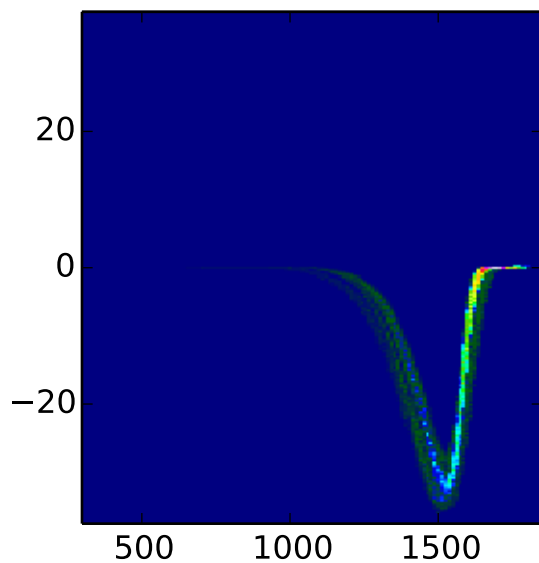
Curvature: -4400 : -3600



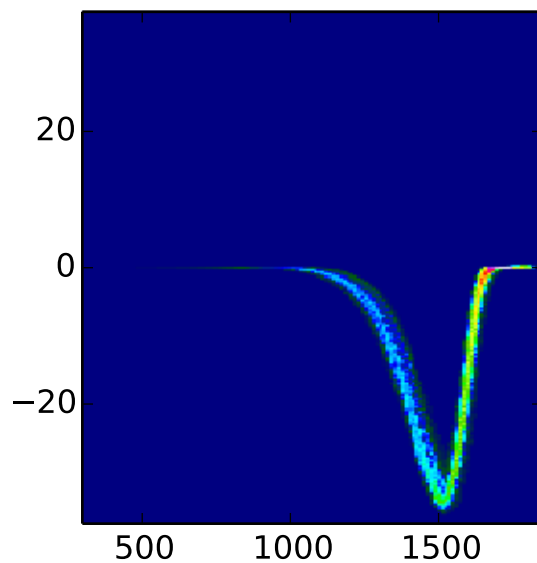
Curvature: -3600 : -2800



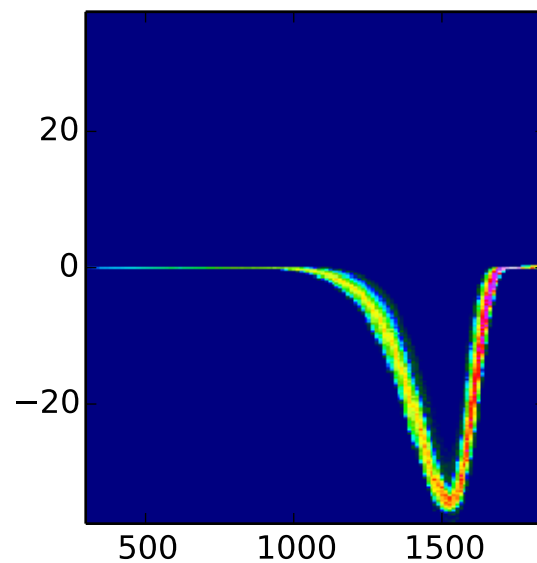
Curvature: -2800 : -2000



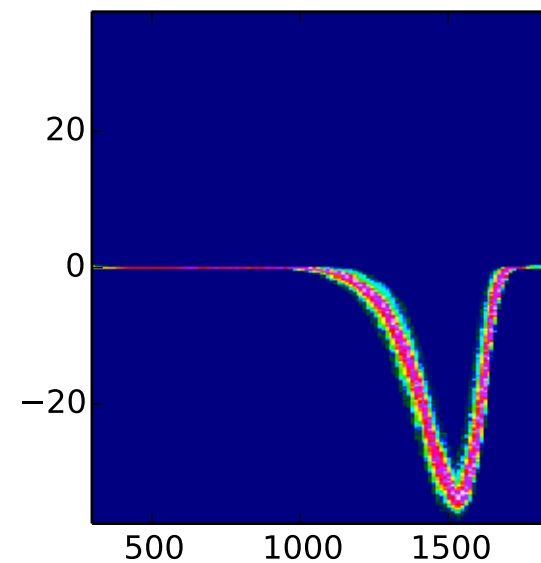
Curvature: -2000 : -1200



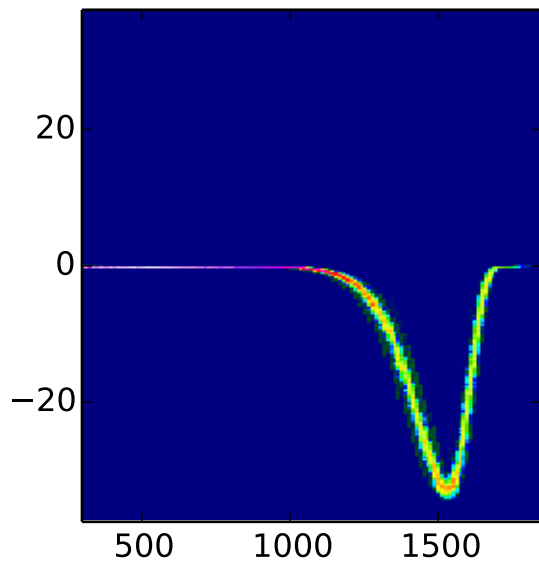
Curvature: -1200 : -400



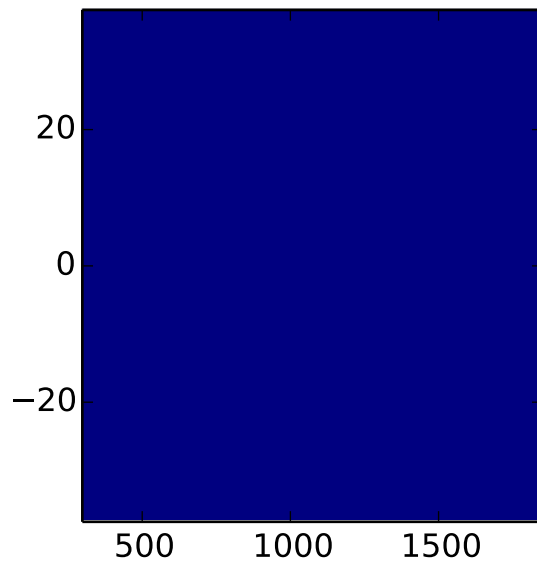
Curvature: -400 : 400



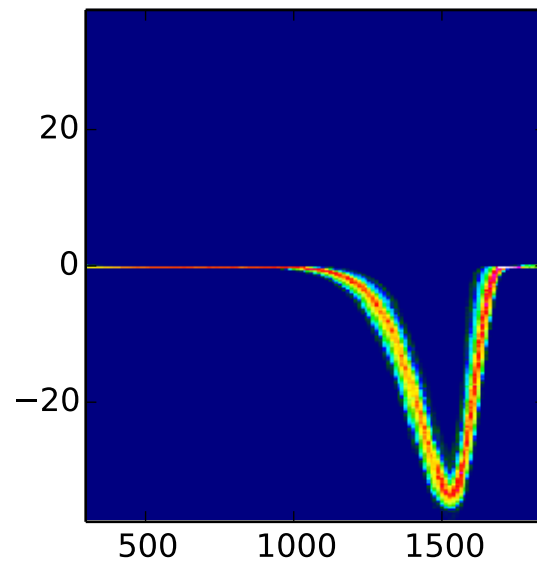
Curvature: 400 : 1200



Curvature: 1200 : 2000

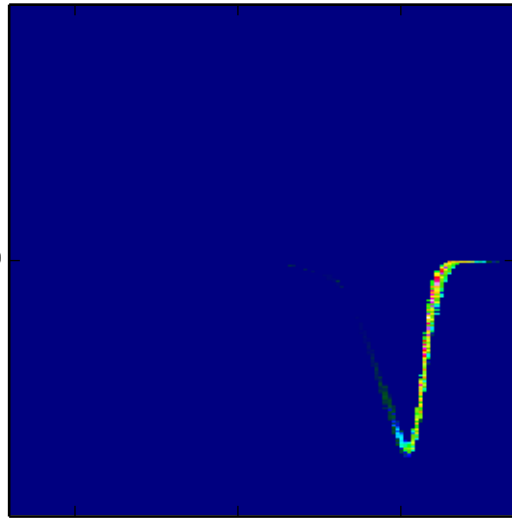


Sum

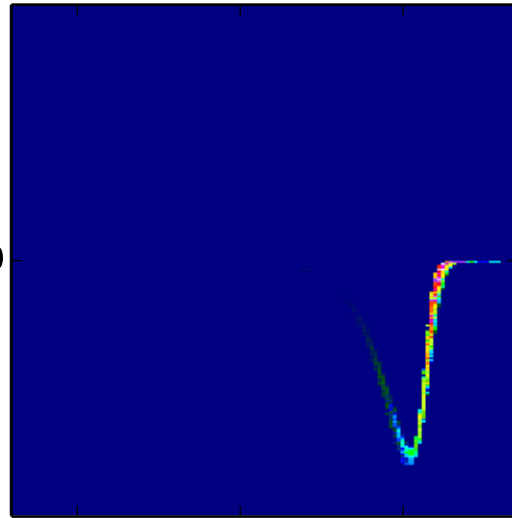


# Edge CH<sub>2</sub>OH $\rightleftharpoons$ CH<sub>2</sub>(S)

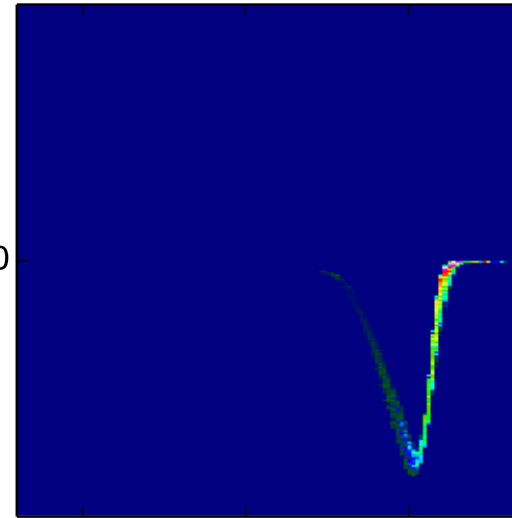
Curvature: -6000 : -5200



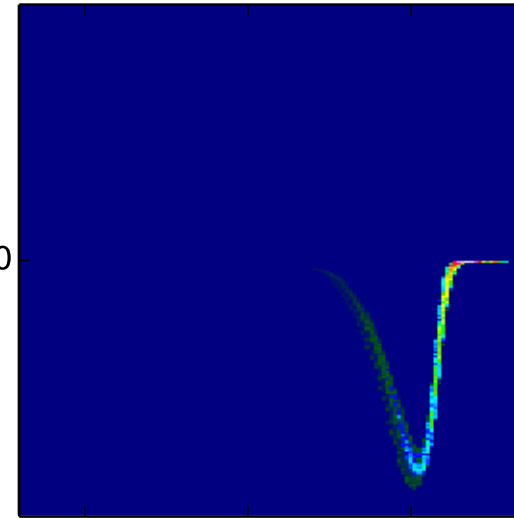
Curvature: -5200 : -4400



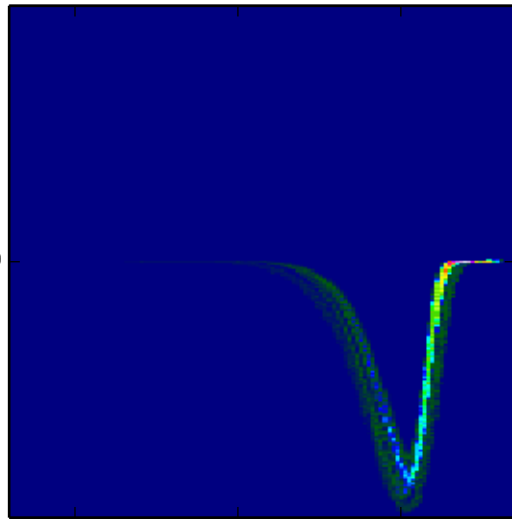
Curvature: -4400 : -3600



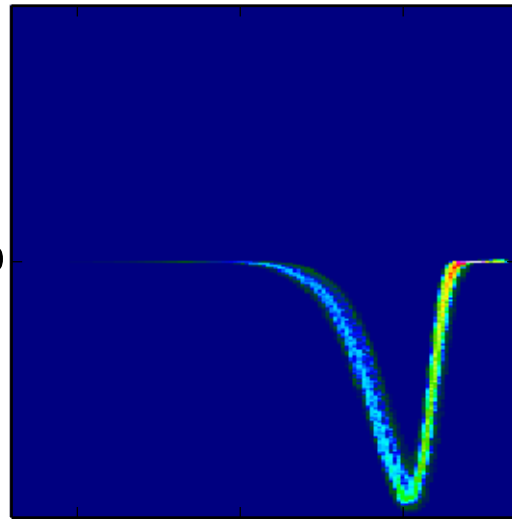
Curvature: -3600 : -2800



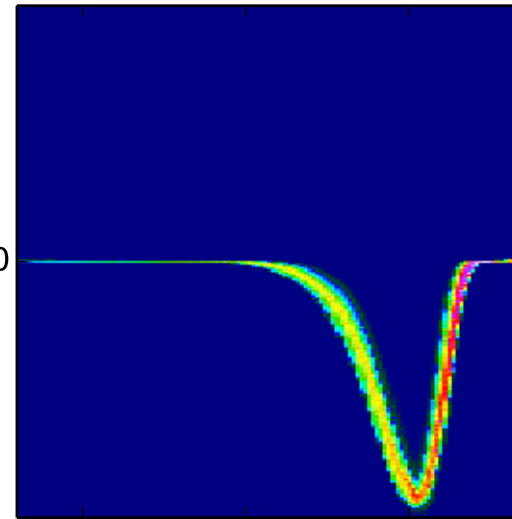
Curvature: -2800 : -2000



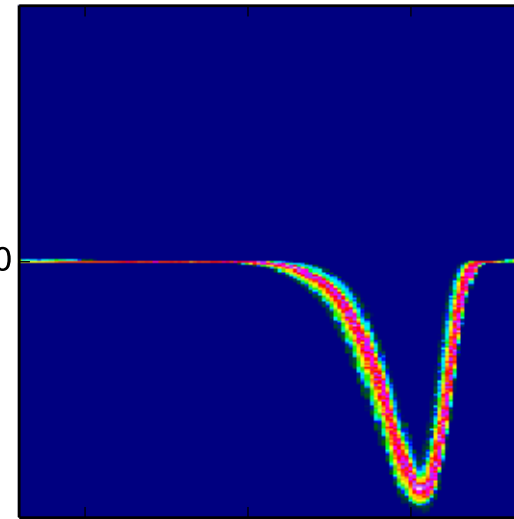
Curvature: -2000 : -1200



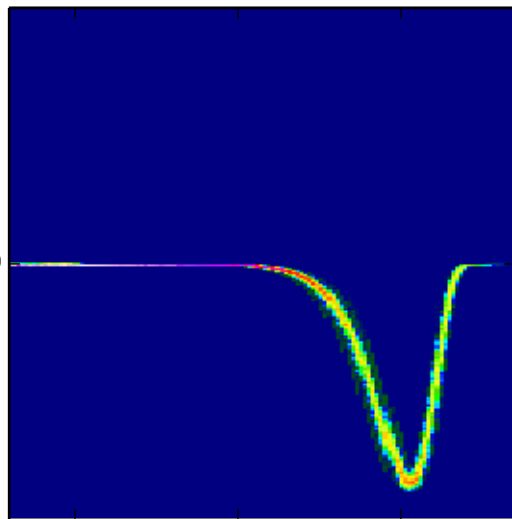
Curvature: -1200 : -400



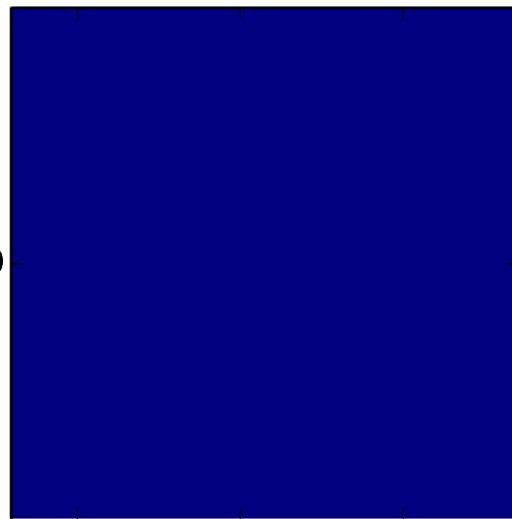
Curvature: -400 : 400



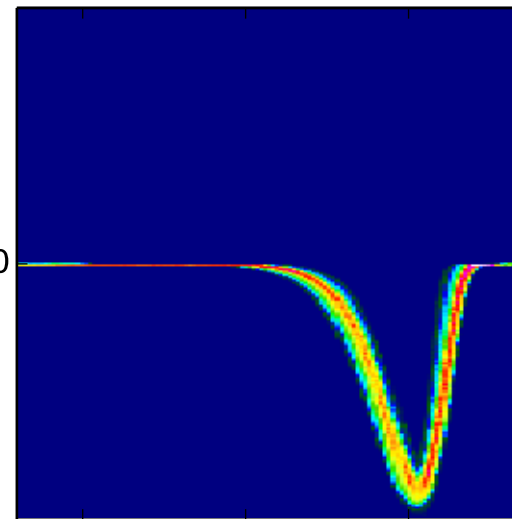
Curvature: 400 : 1200



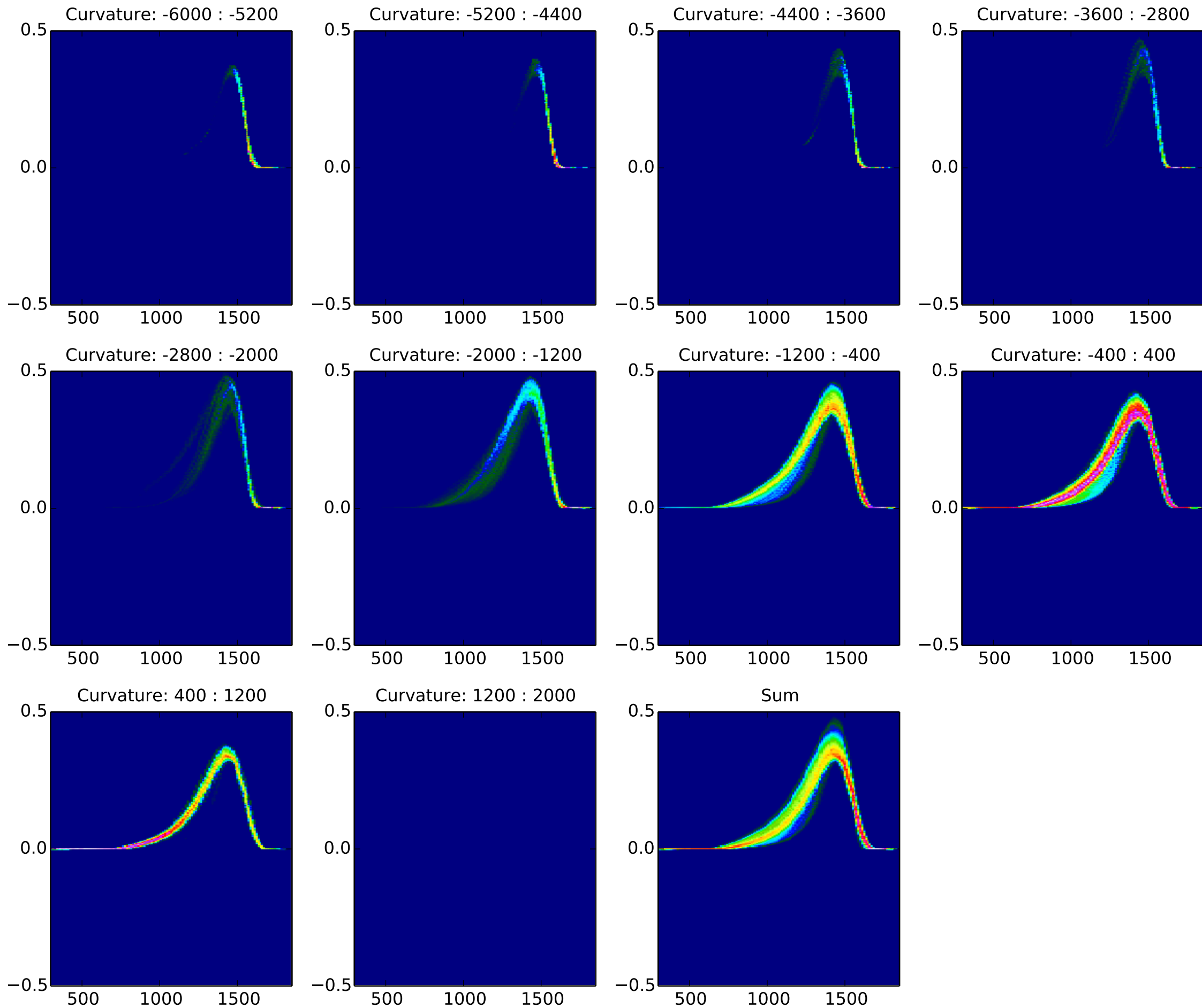
Curvature: 1200 : 2000



Sum

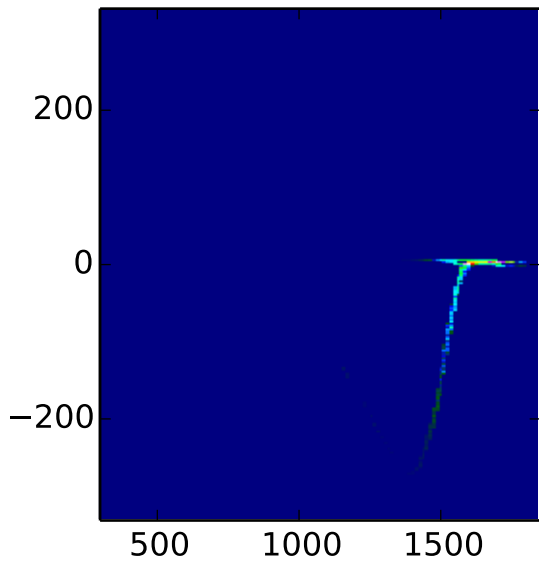


# Edge CH<sub>3</sub>O $\rightleftharpoons$ CH<sub>2</sub>OH

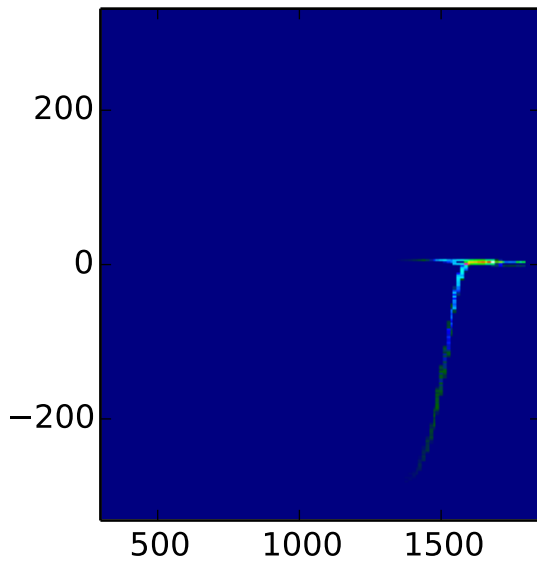


# Edge CH3O $\rightleftharpoons$ CH3

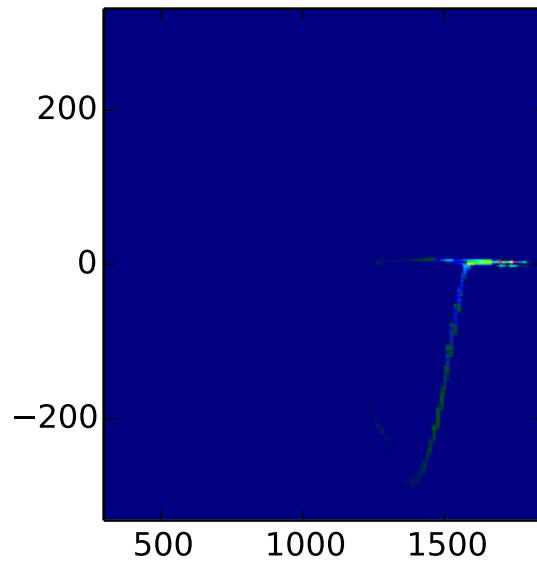
Curvature: -6000 : -5200



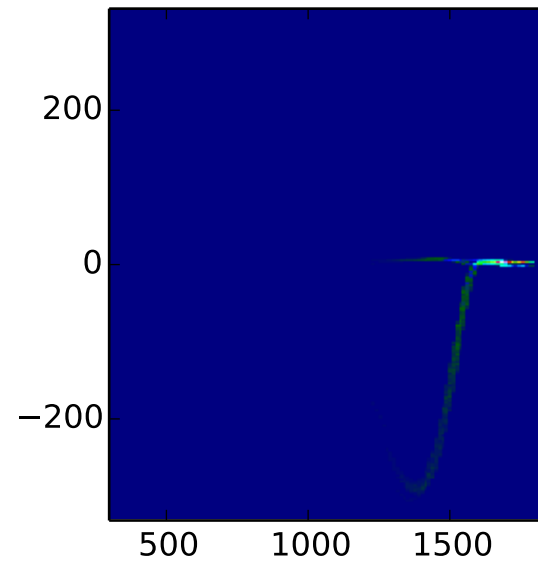
Curvature: -5200 : -4400



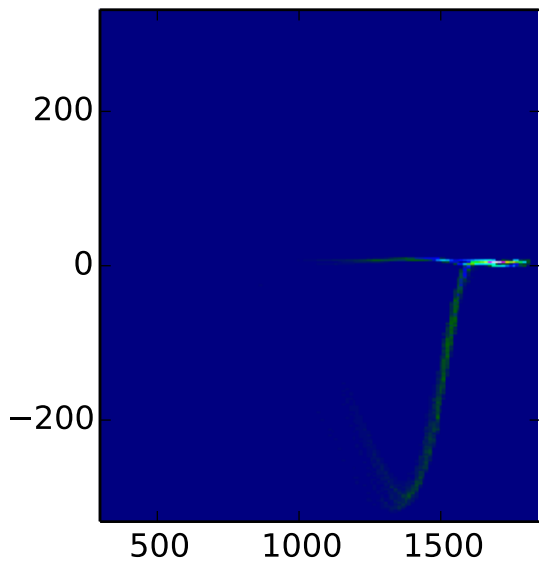
Curvature: -4400 : -3600



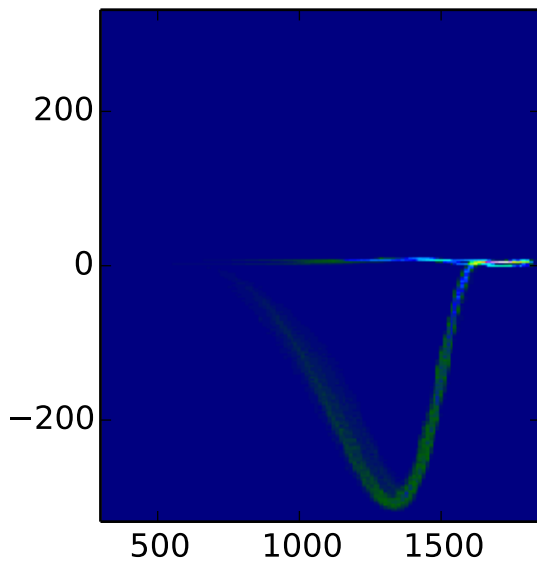
Curvature: -3600 : -2800



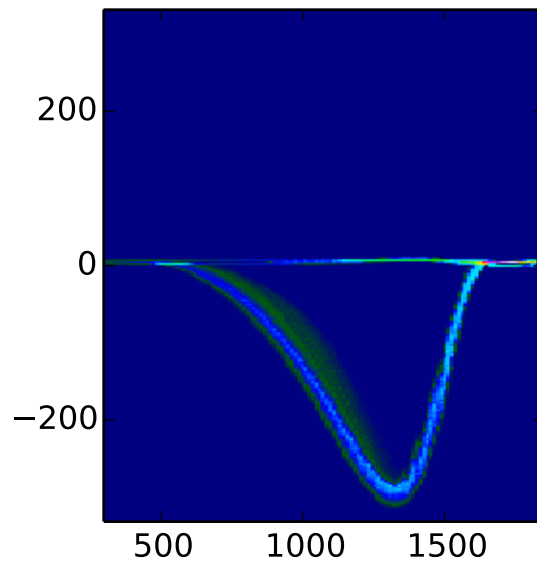
Curvature: -2800 : -2000



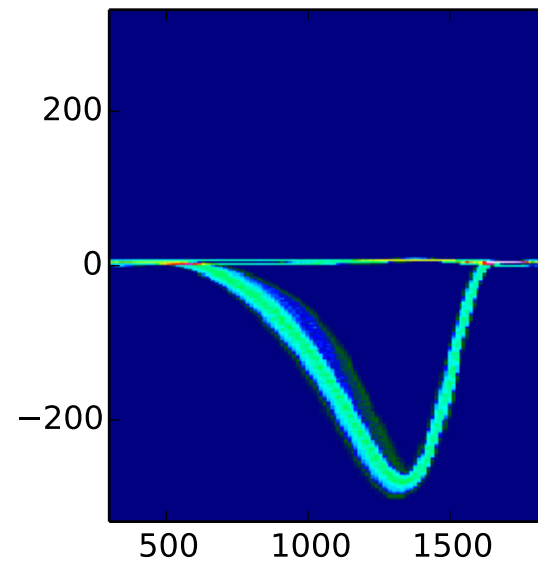
Curvature: -2000 : -1200



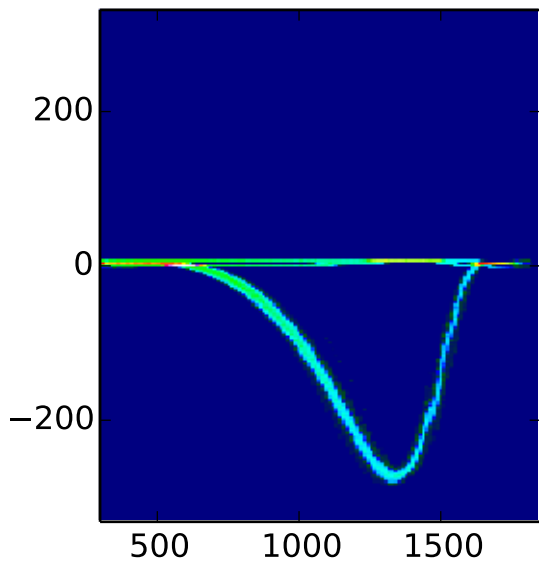
Curvature: -1200 : -400



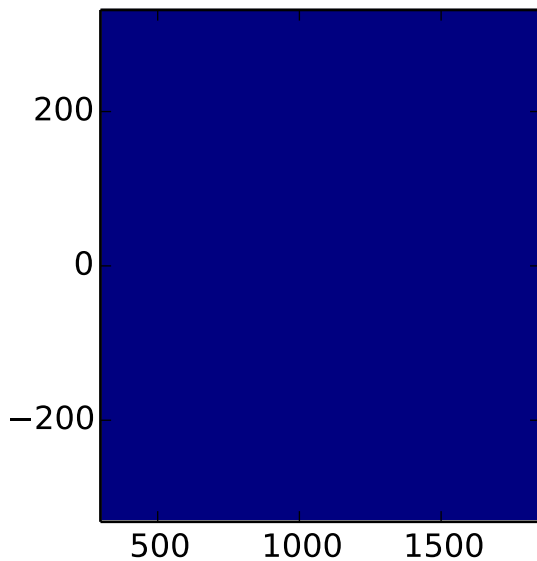
Curvature: -400 : 400



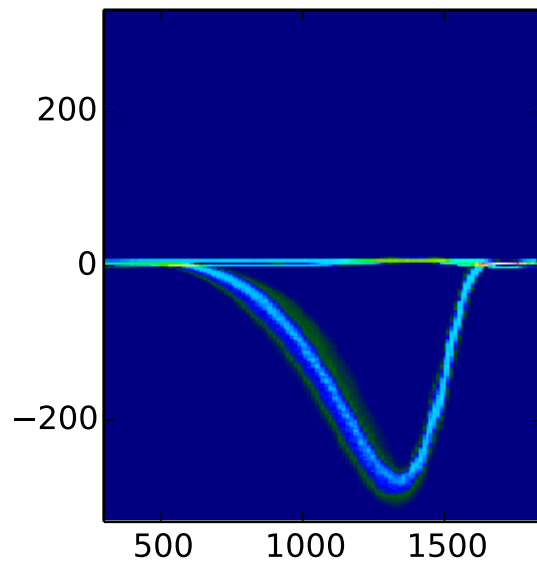
Curvature: 400 : 1200



Curvature: 1200 : 2000

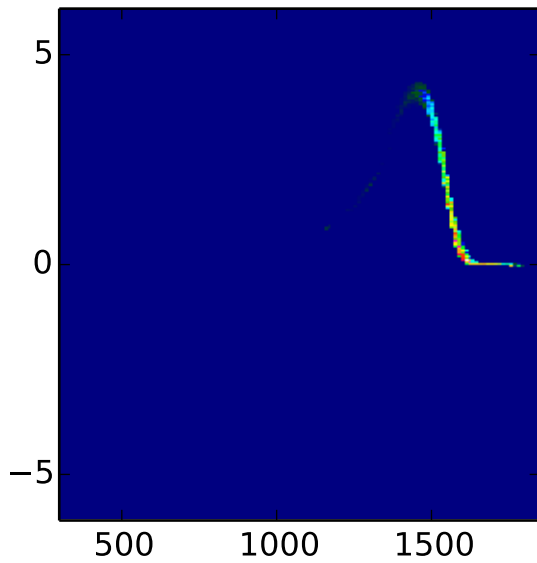


Sum

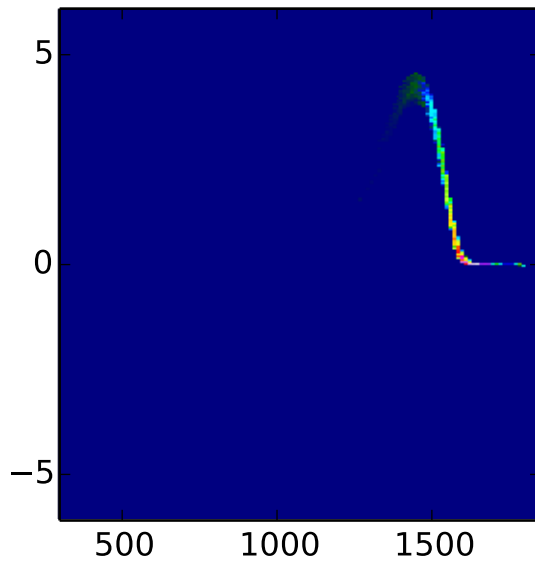


# Edge CH3O $\rightleftharpoons$ CH2(S)

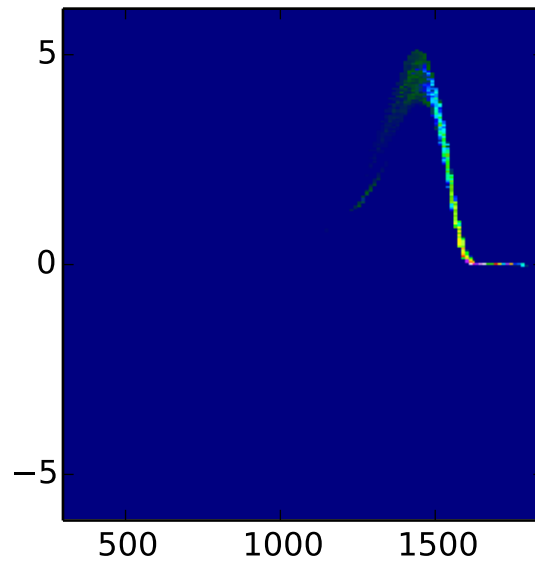
Curvature: -6000 : -5200



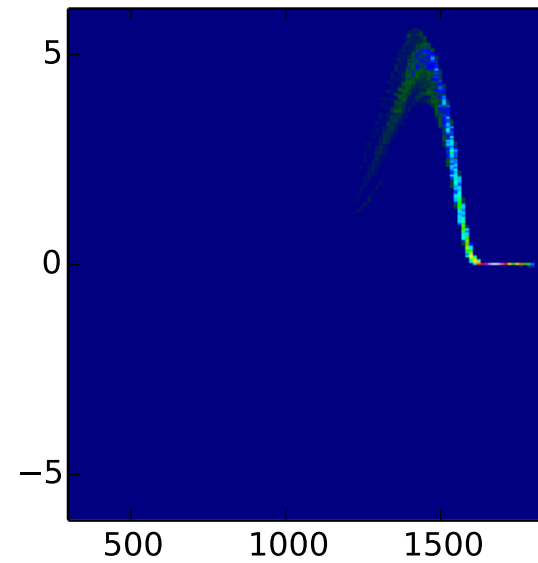
Curvature: -5200 : -4400



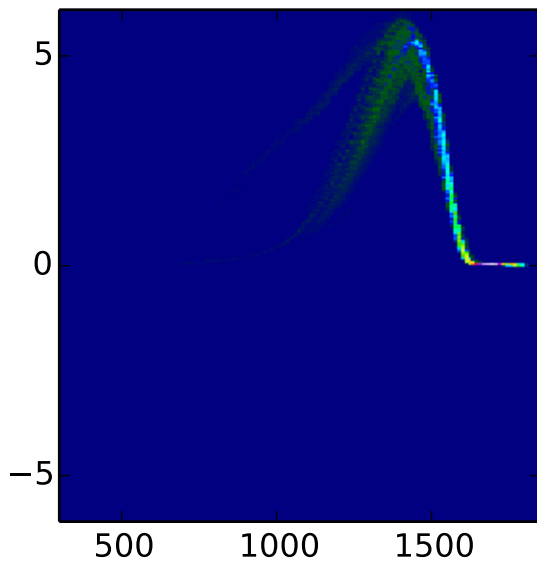
Curvature: -4400 : -3600



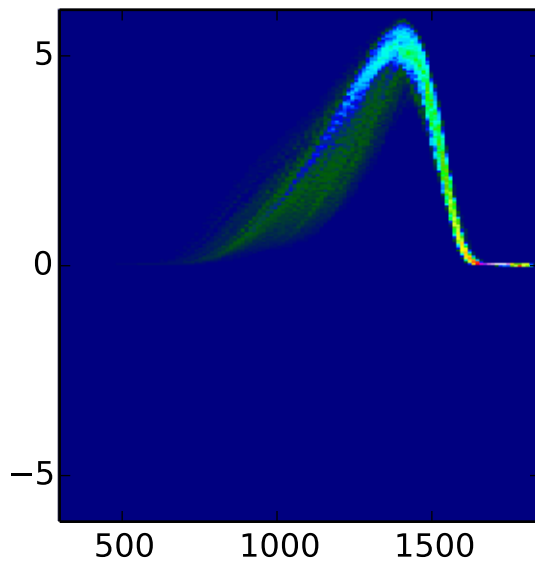
Curvature: -3600 : -2800



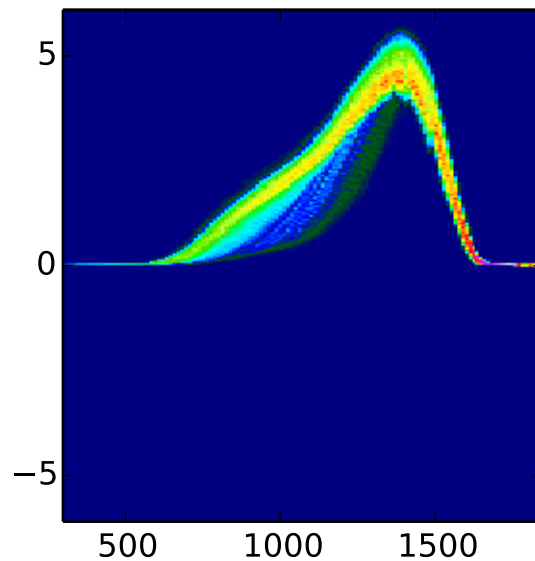
Curvature: -2800 : -2000



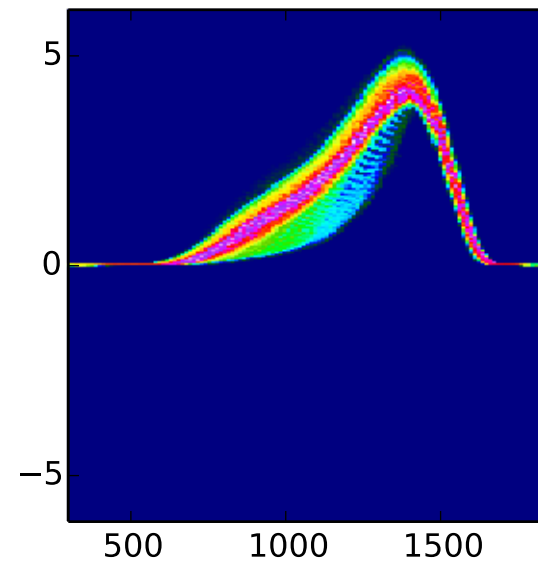
Curvature: -2000 : -1200



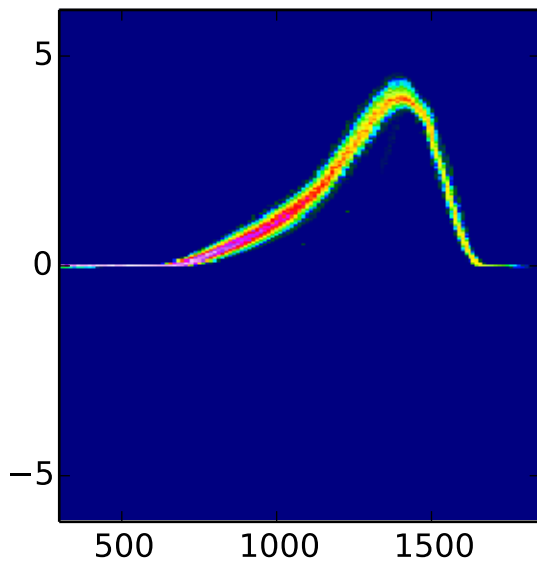
Curvature: -1200 : -400



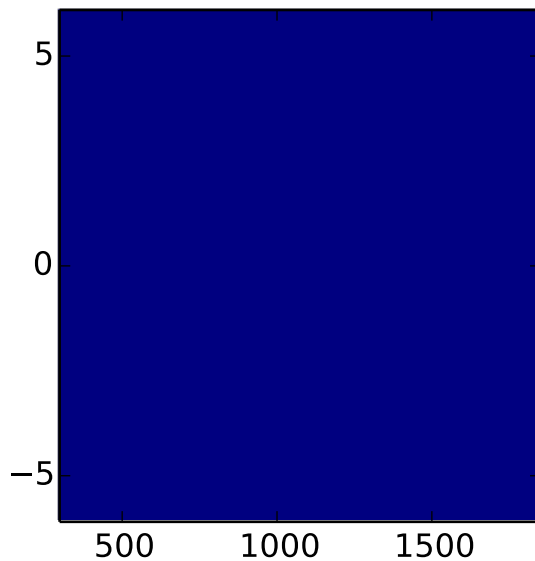
Curvature: -400 : 400



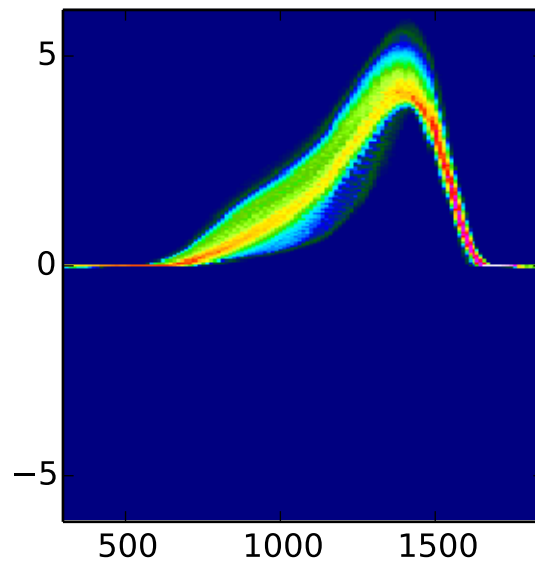
Curvature: 400 : 1200



Curvature: 1200 : 2000

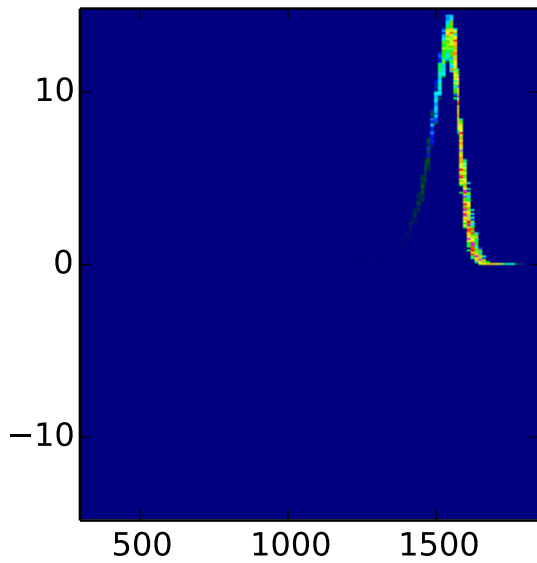


Sum

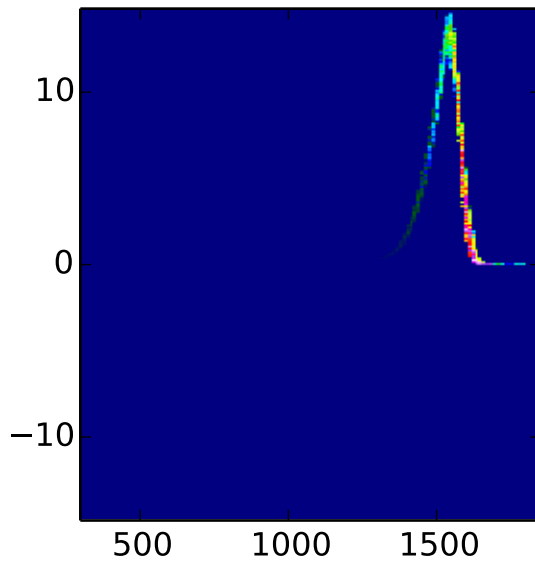


# Edge HCCO $\rightleftharpoons$ CH<sub>2</sub>(S)

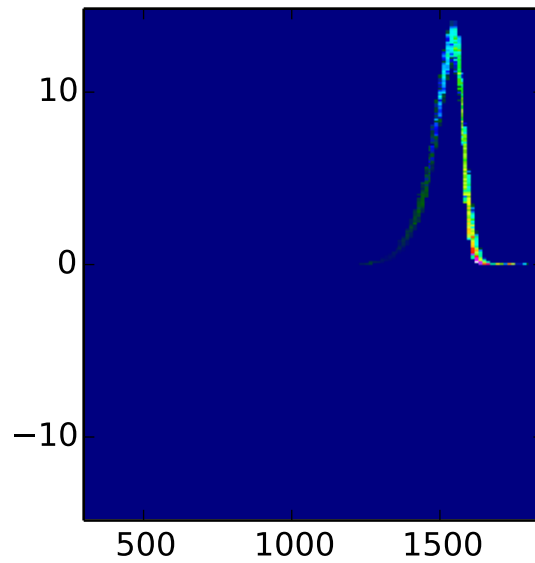
Curvature: -6000 : -5200



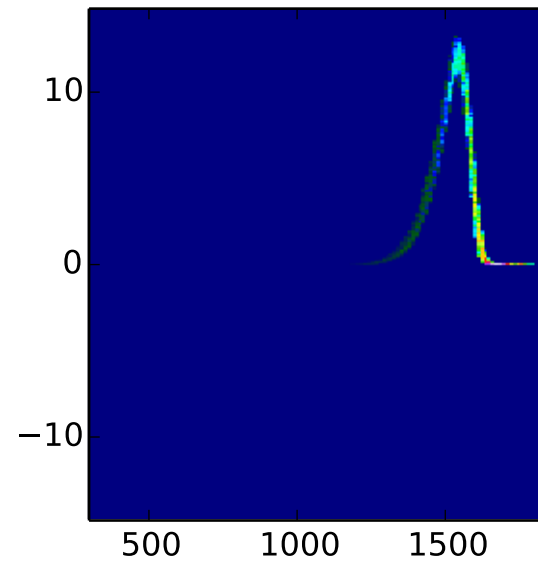
Curvature: -5200 : -4400



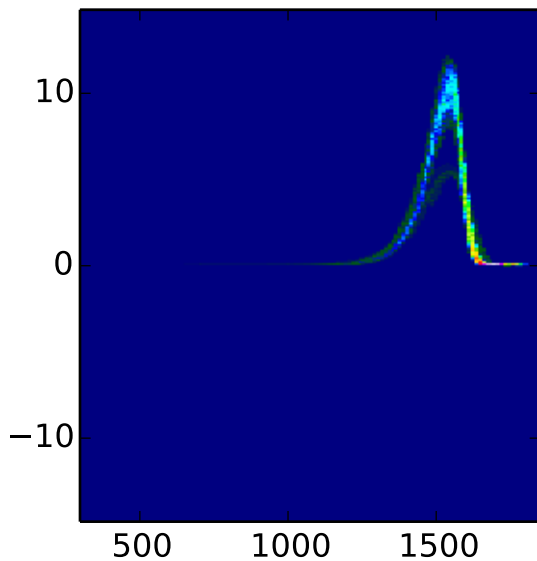
Curvature: -4400 : -3600



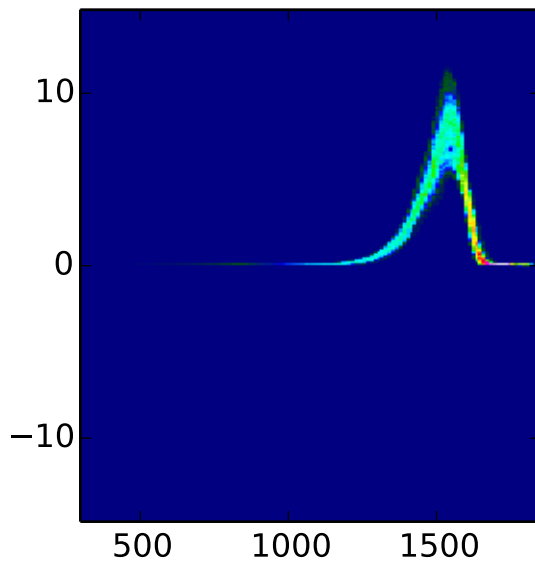
Curvature: -3600 : -2800



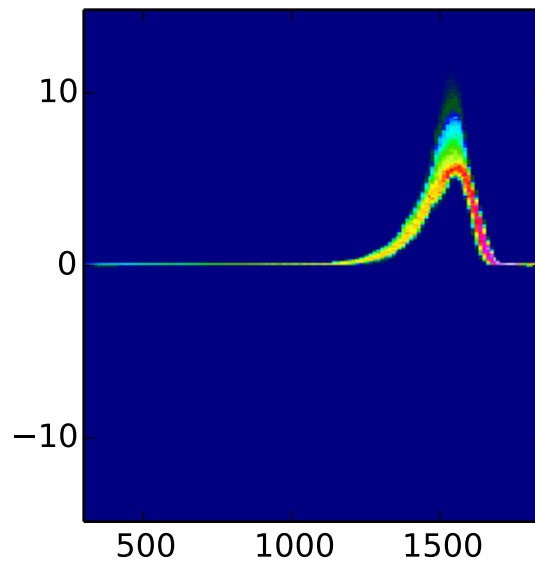
Curvature: -2800 : -2000



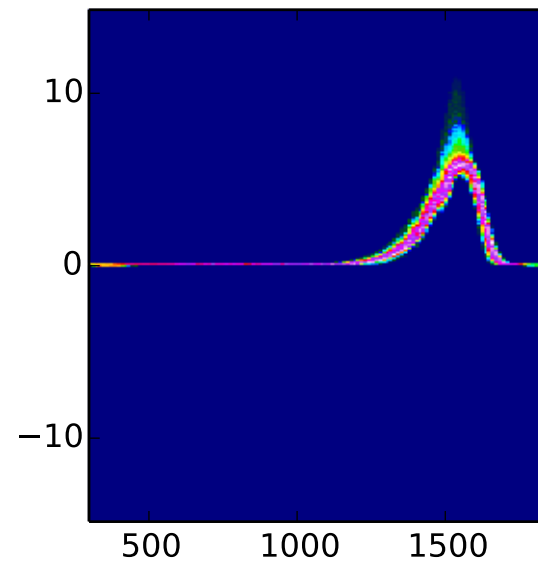
Curvature: -2000 : -1200



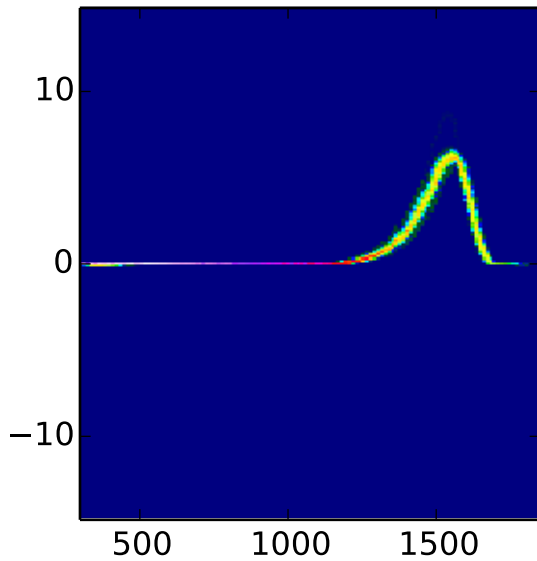
Curvature: -1200 : -400



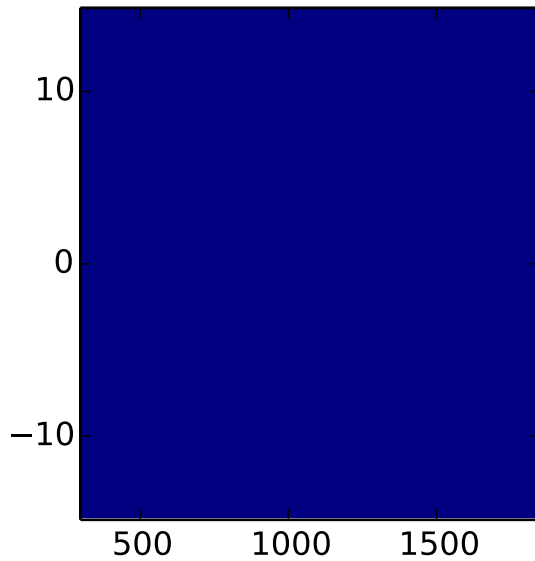
Curvature: -400 : 400



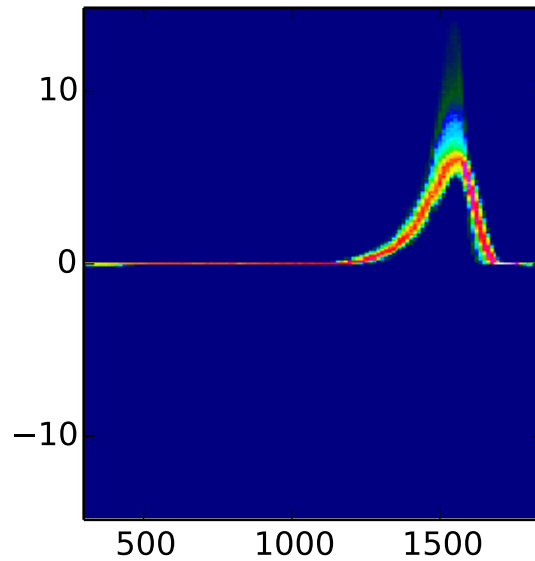
Curvature: 400 : 1200



Curvature: 1200 : 2000



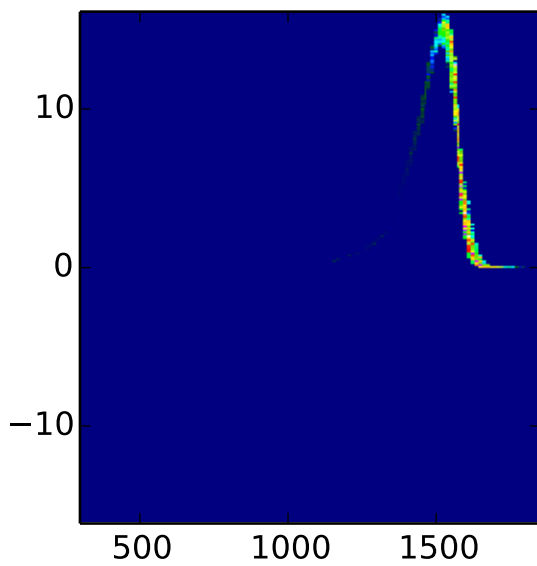
Sum



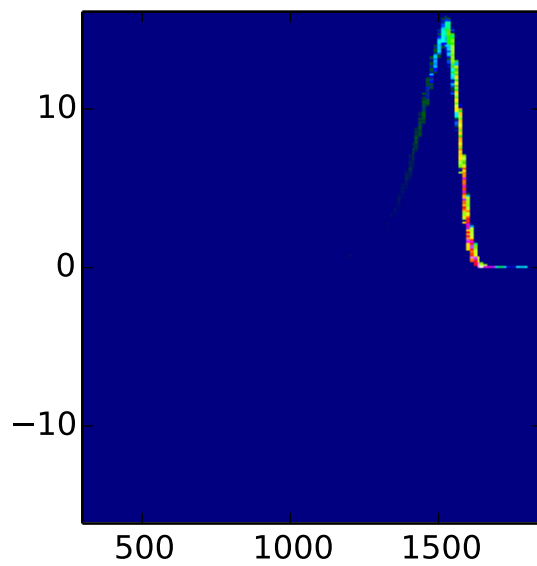


# Edge CH<sub>2</sub>CO $\rightleftharpoons$ CH<sub>3</sub>

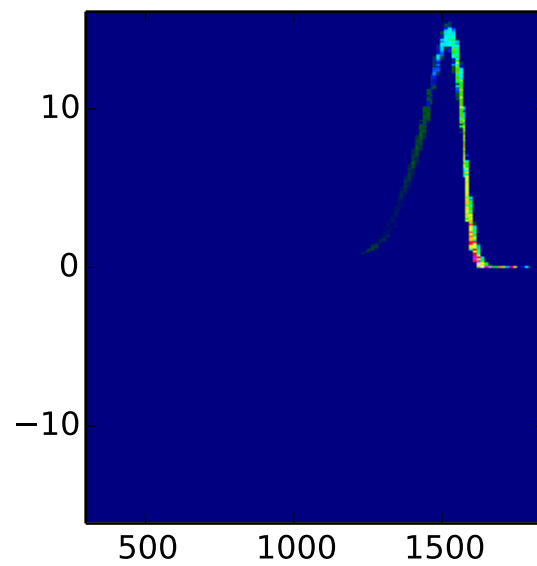
Curvature: -6000 : -5200



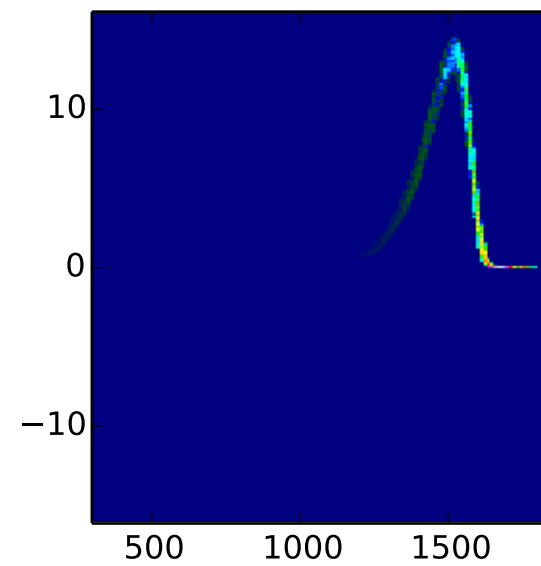
Curvature: -5200 : -4400



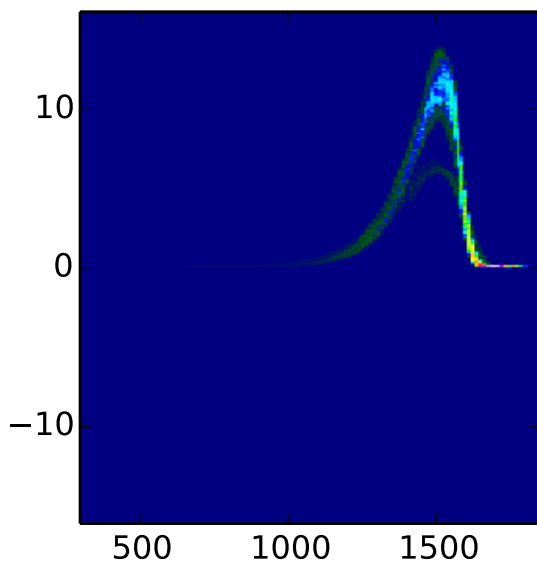
Curvature: -4400 : -3600



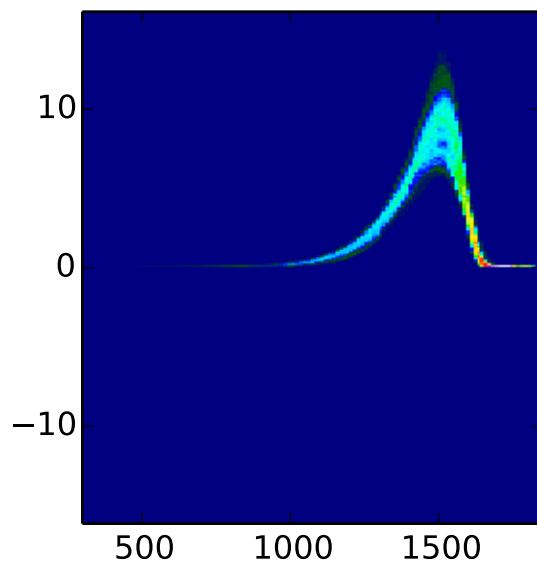
Curvature: -3600 : -2800



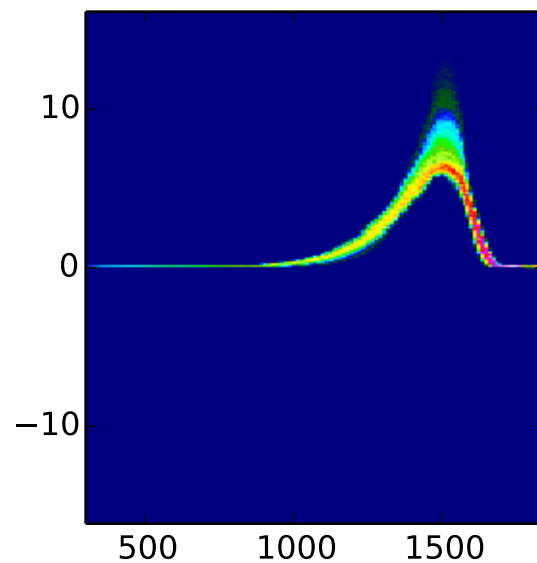
Curvature: -2800 : -2000



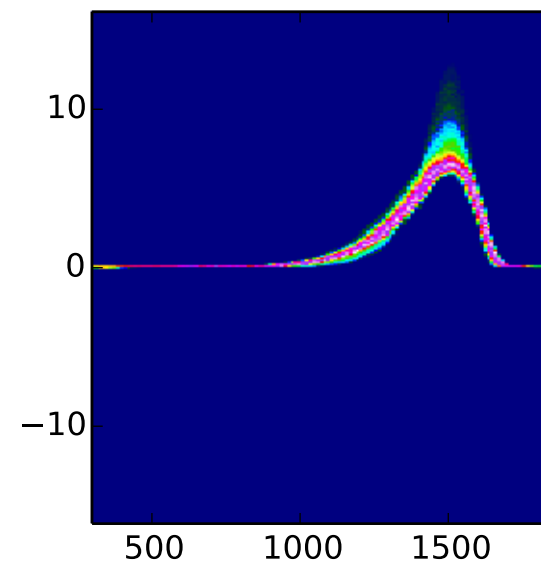
Curvature: -2000 : -1200



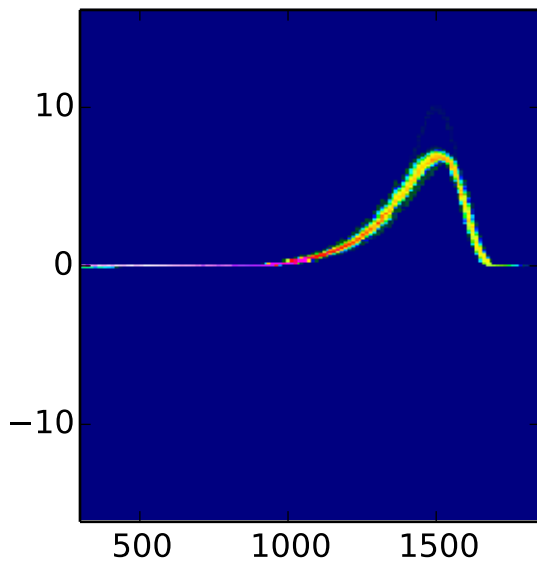
Curvature: -1200 : -400



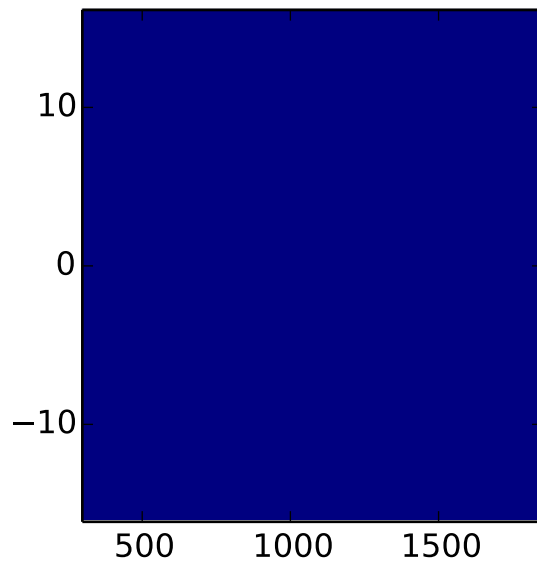
Curvature: -400 : 400



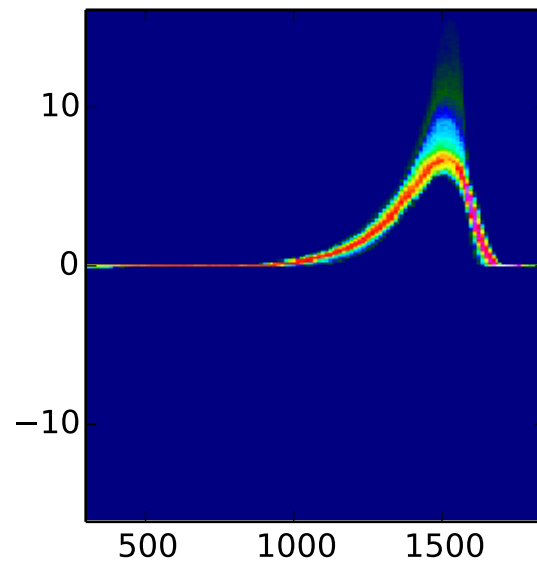
Curvature: 400 : 1200



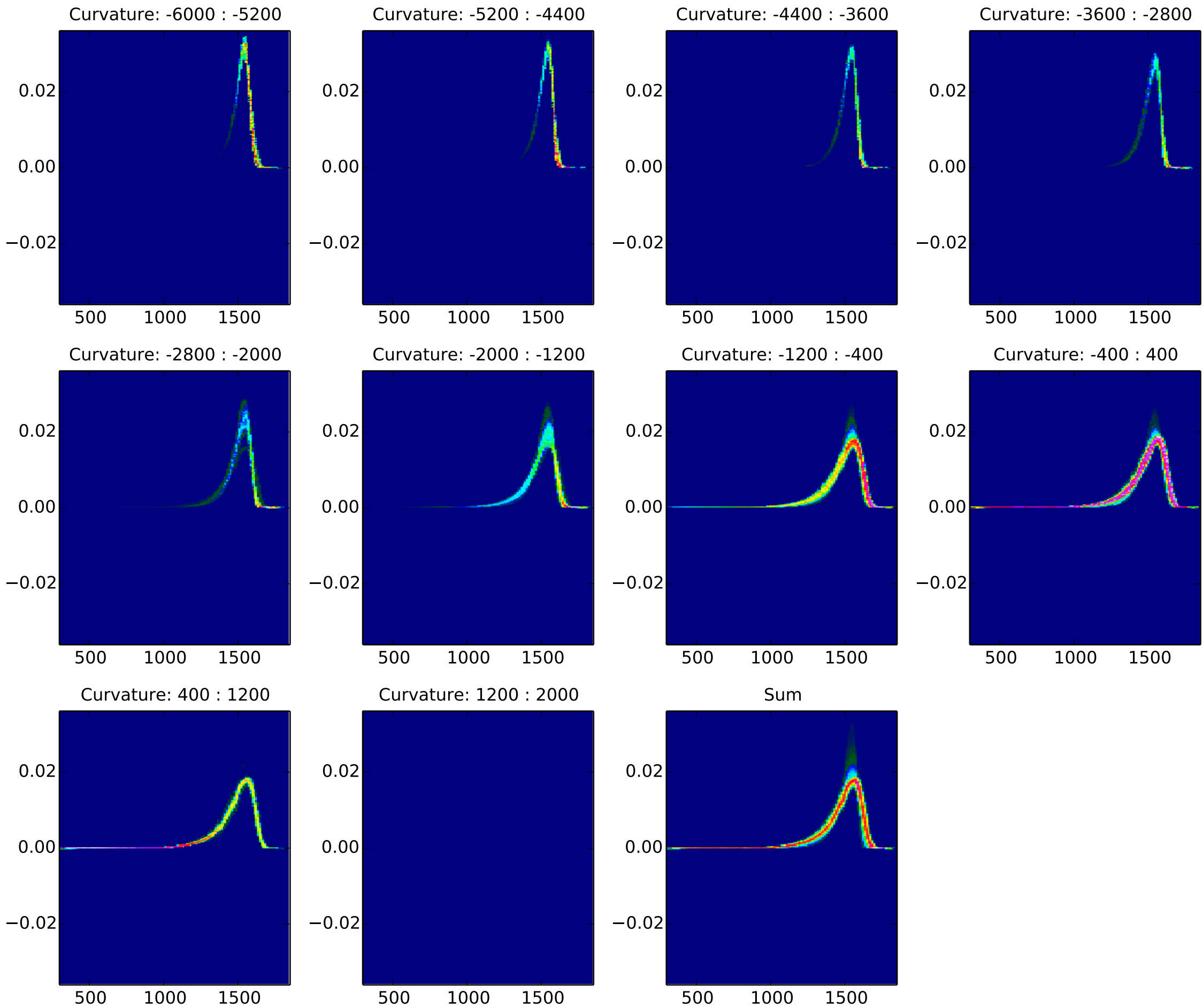
Curvature: 1200 : 2000



Sum

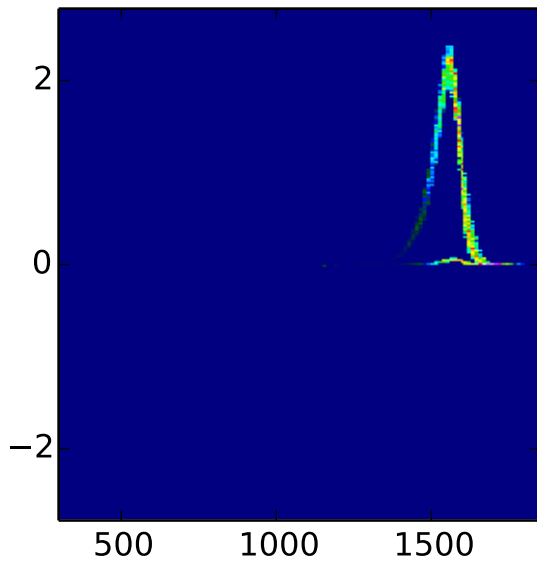


# Edge HCCOH $\rightleftharpoons$ CH<sub>2</sub>CO

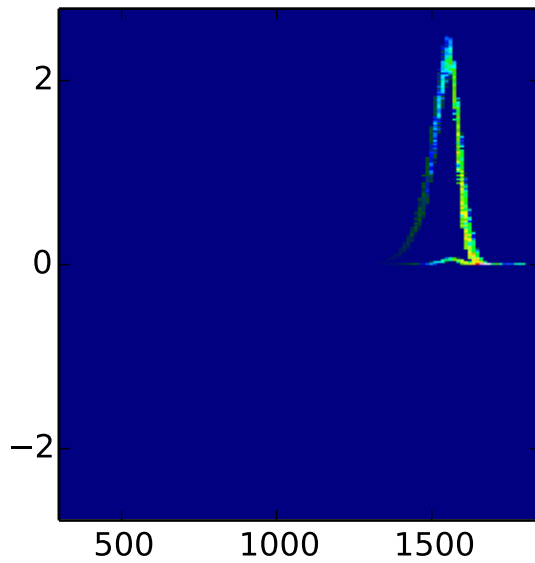


# Edge C $\Leftrightarrow$ CO

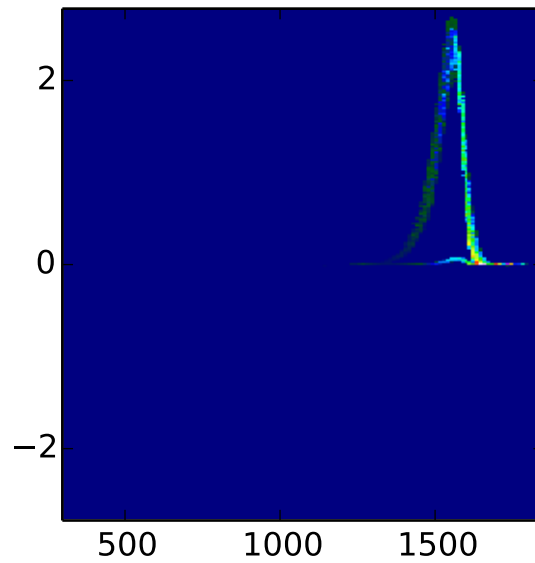
Curvature: -6000 : -5200



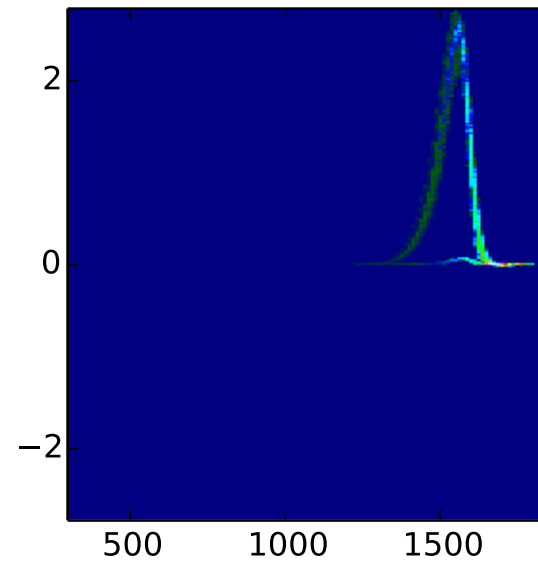
Curvature: -5200 : -4400



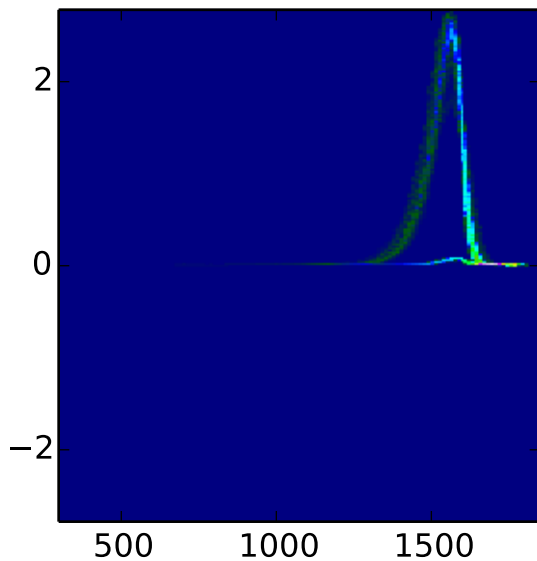
Curvature: -4400 : -3600



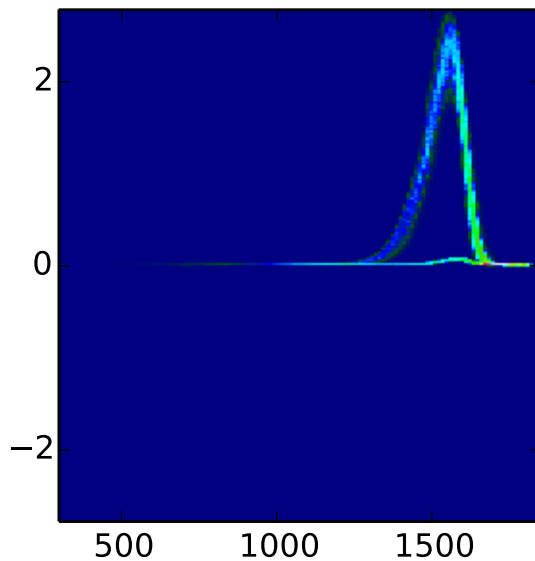
Curvature: -3600 : -2800



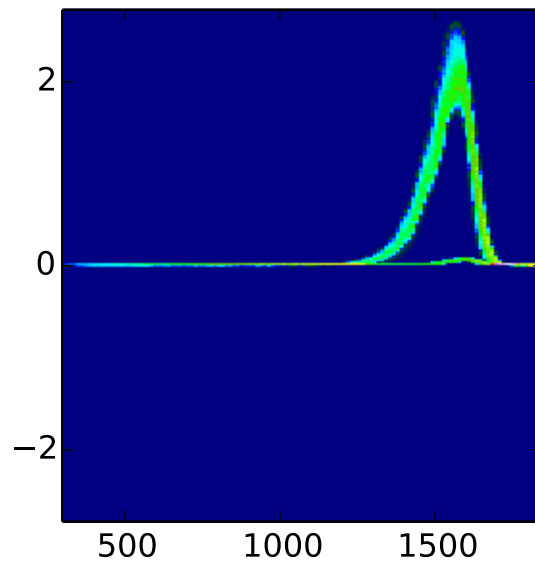
Curvature: -2800 : -2000



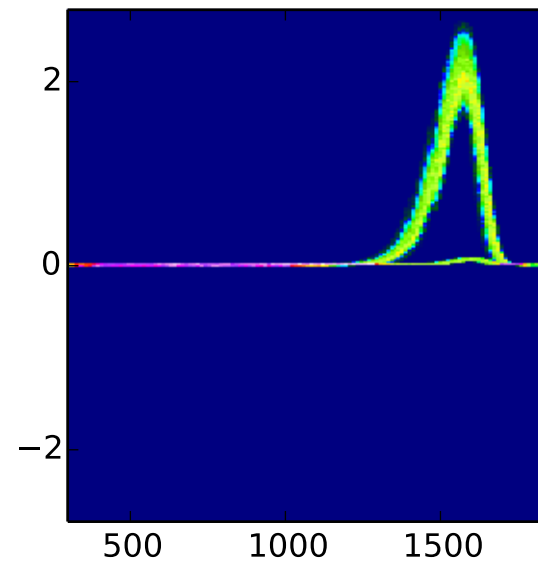
Curvature: -2000 : -1200



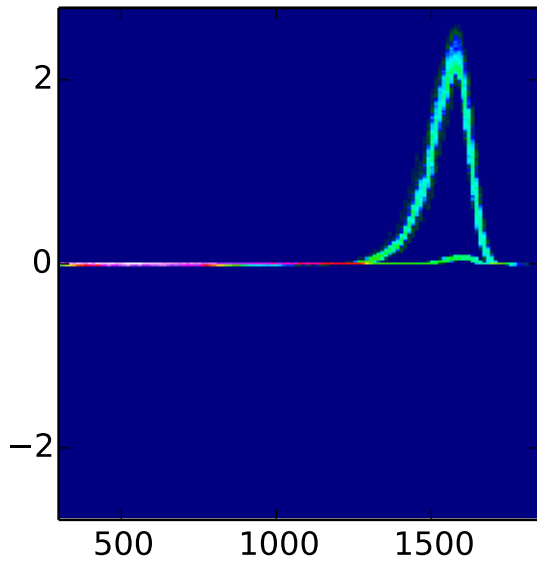
Curvature: -1200 : -400



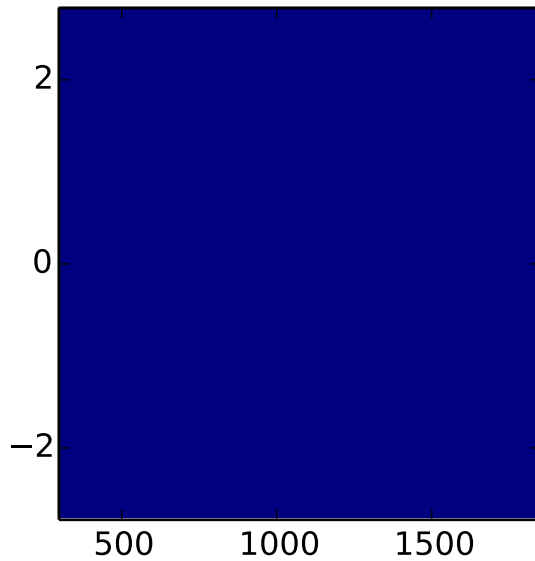
Curvature: -400 : 400



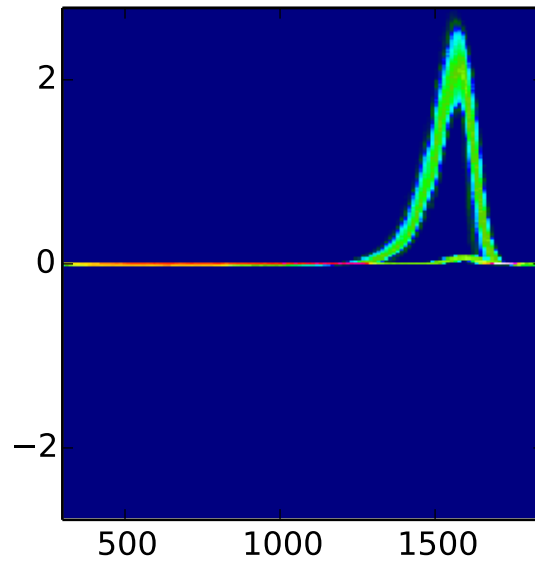
Curvature: 400 : 1200



Curvature: 1200 : 2000

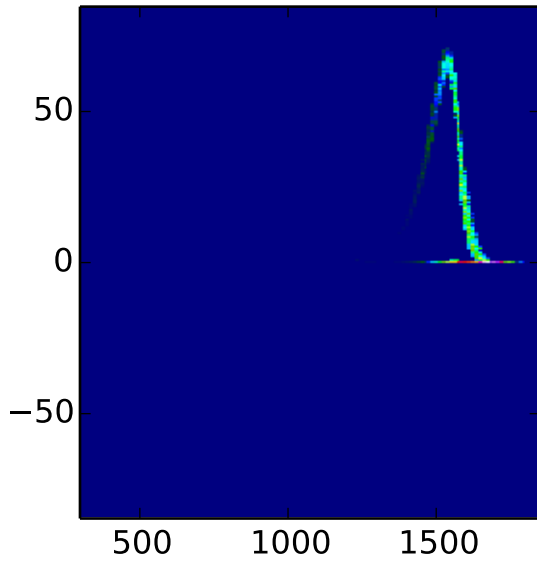


Sum

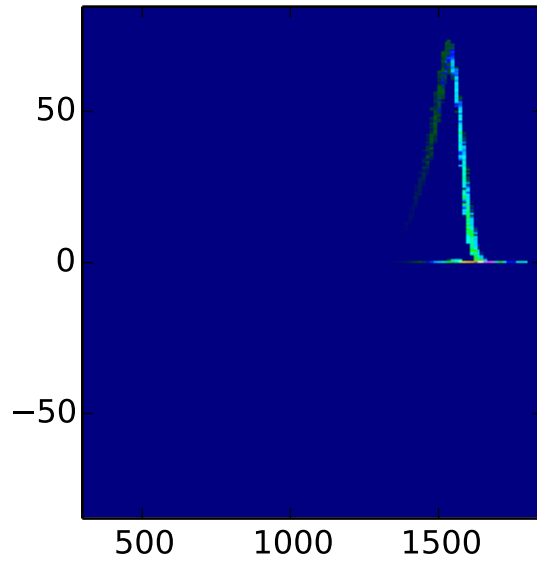


# Edge CH $\rightleftharpoons$ HCO

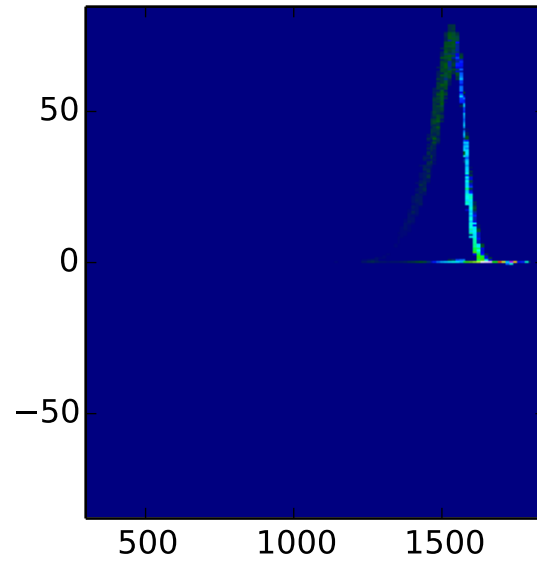
Curvature: -6000 : -5200



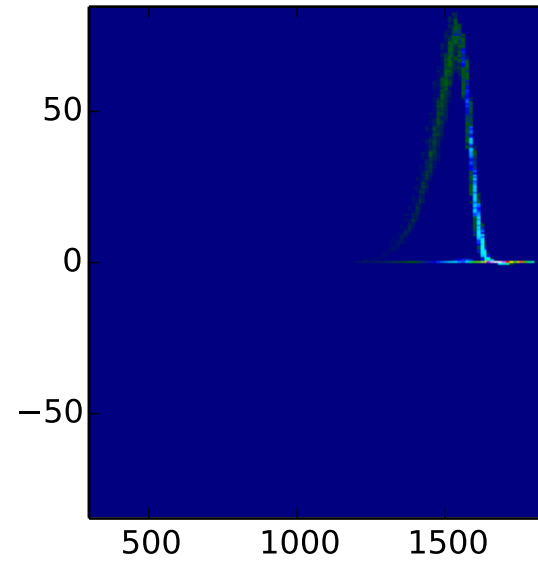
Curvature: -5200 : -4400



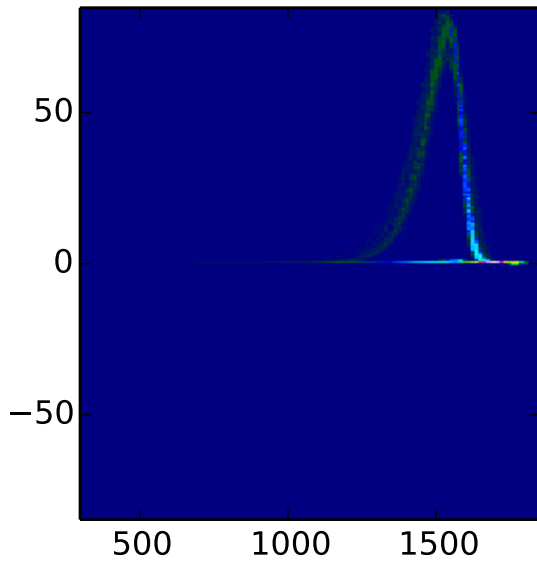
Curvature: -4400 : -3600



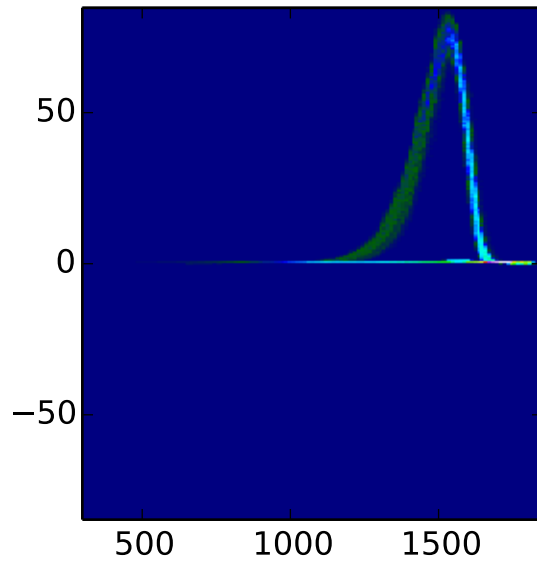
Curvature: -3600 : -2800



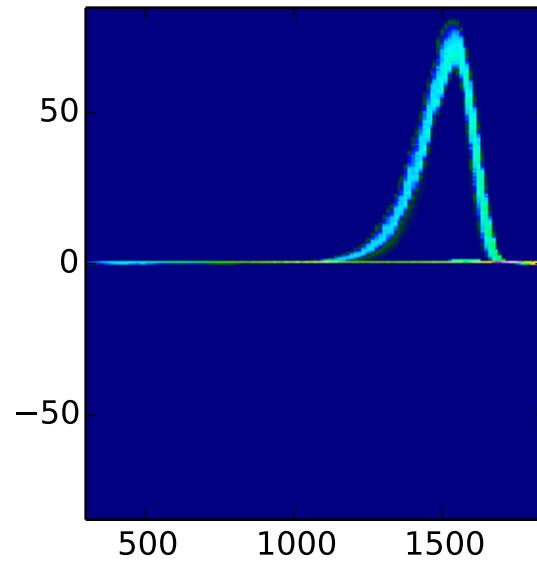
Curvature: -2800 : -2000



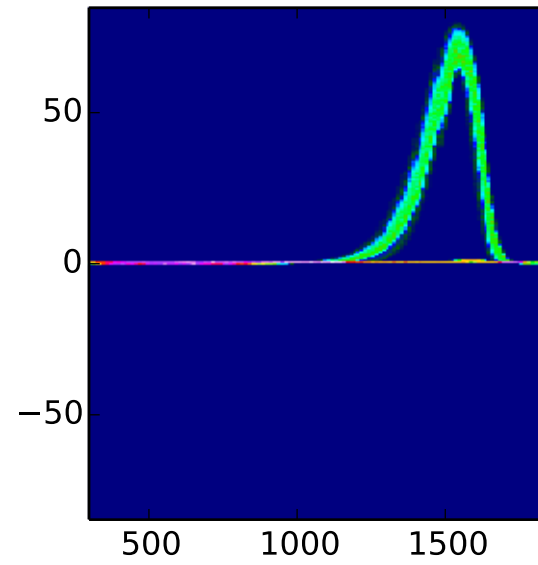
Curvature: -2000 : -1200



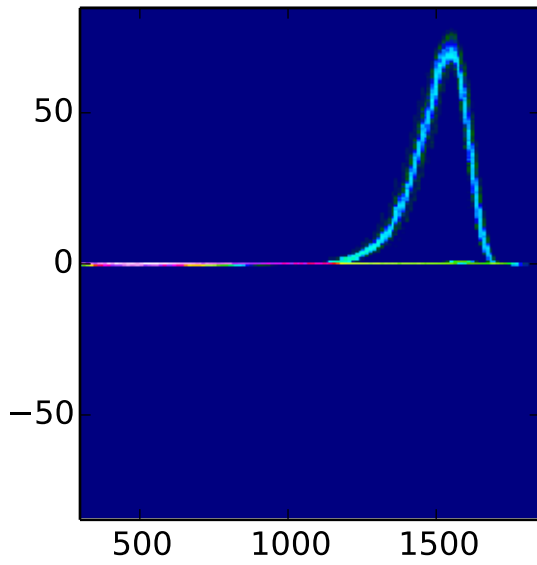
Curvature: -1200 : -400



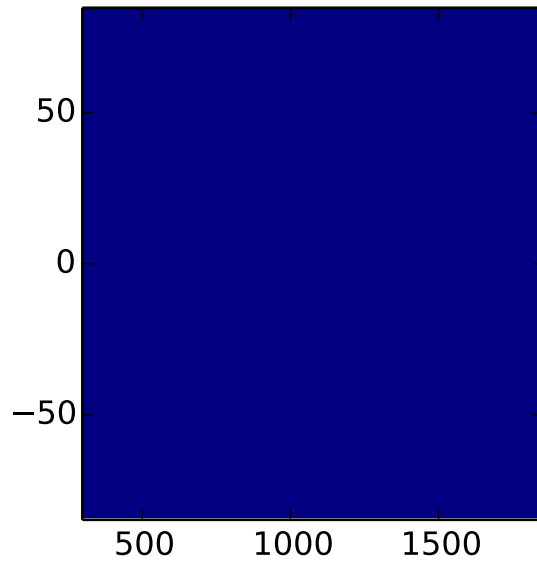
Curvature: -400 : 400



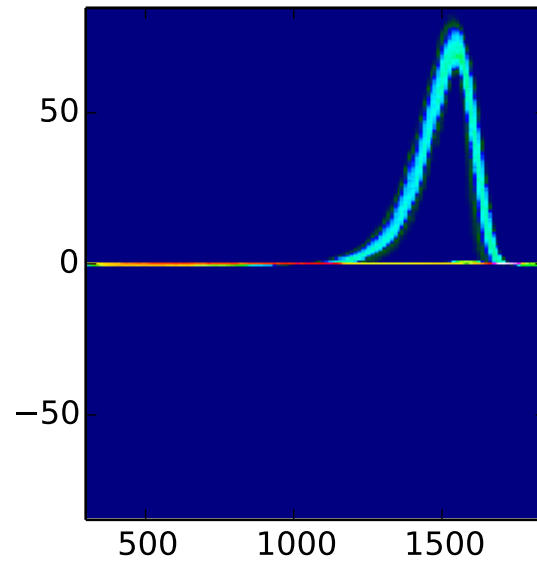
Curvature: 400 : 1200



Curvature: 1200 : 2000

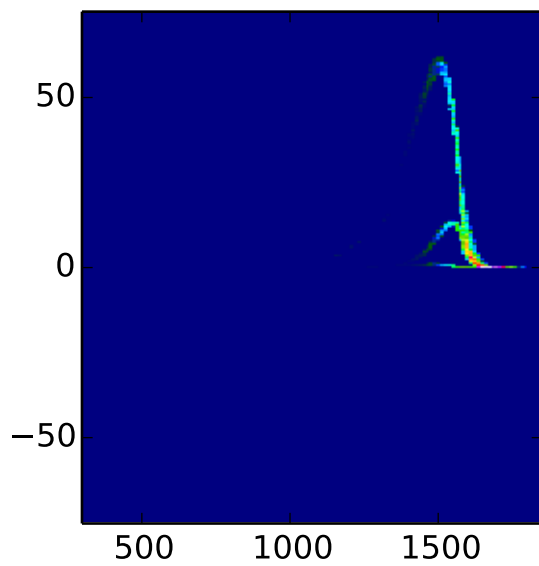


Sum

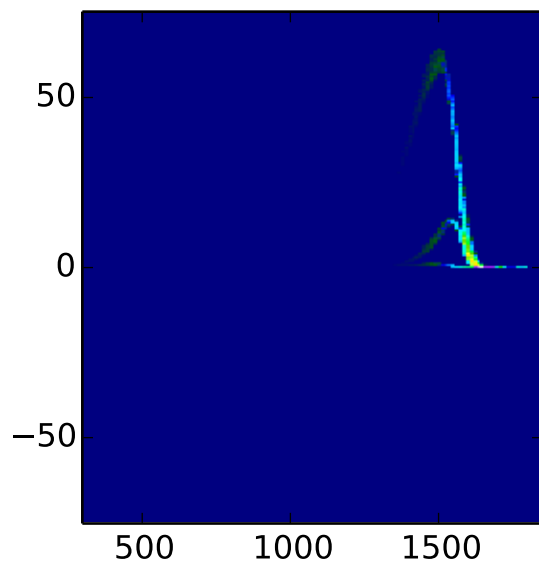


# Edge CH<sub>2</sub> $\rightleftharpoons$ CH<sub>2</sub>O

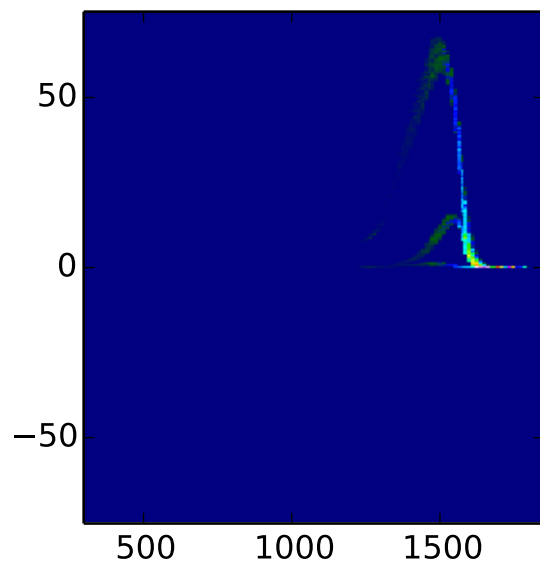
Curvature: -6000 : -5200



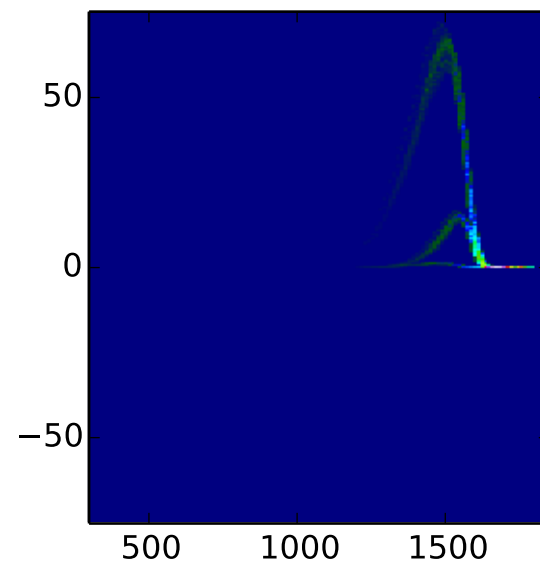
Curvature: -5200 : -4400



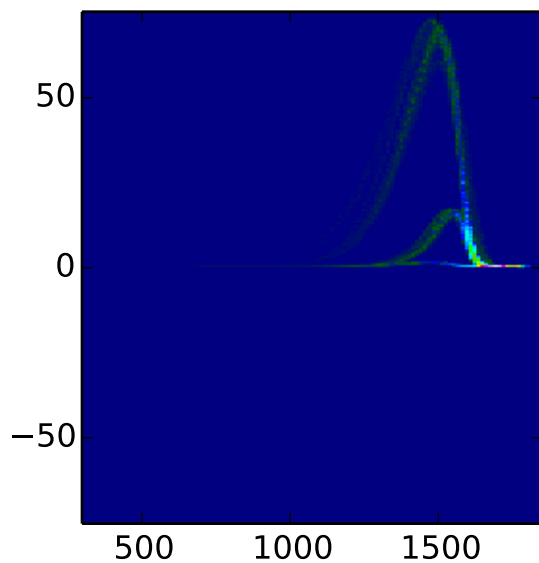
Curvature: -4400 : -3600



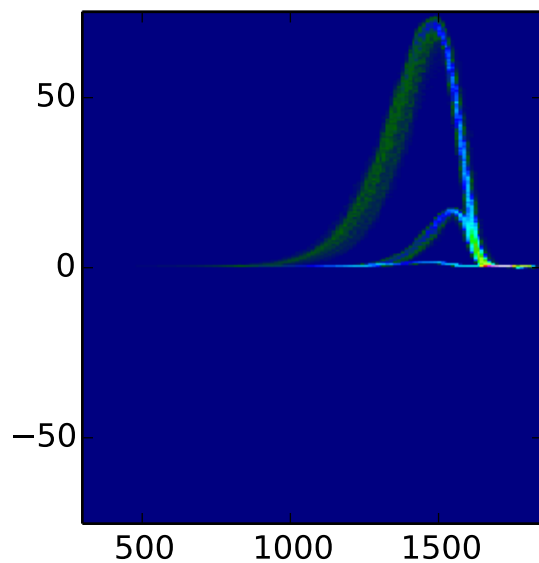
Curvature: -3600 : -2800



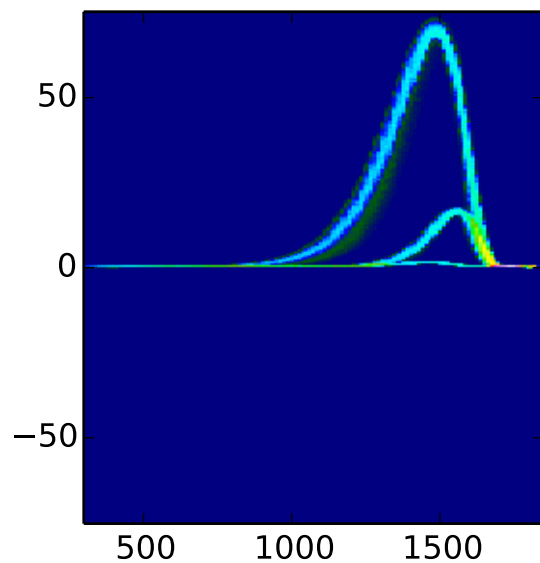
Curvature: -2800 : -2000



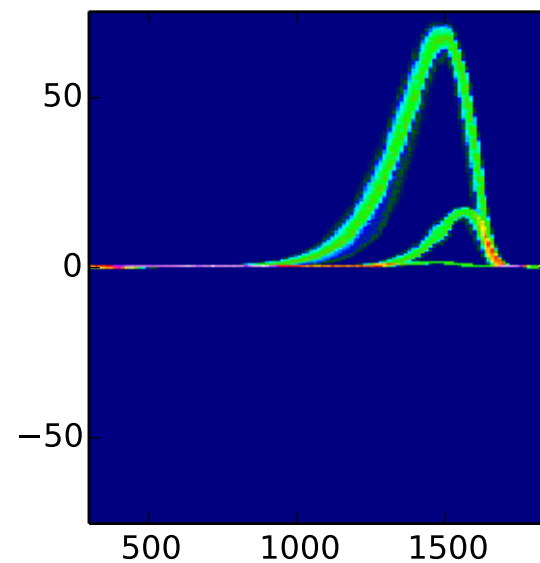
Curvature: -2000 : -1200



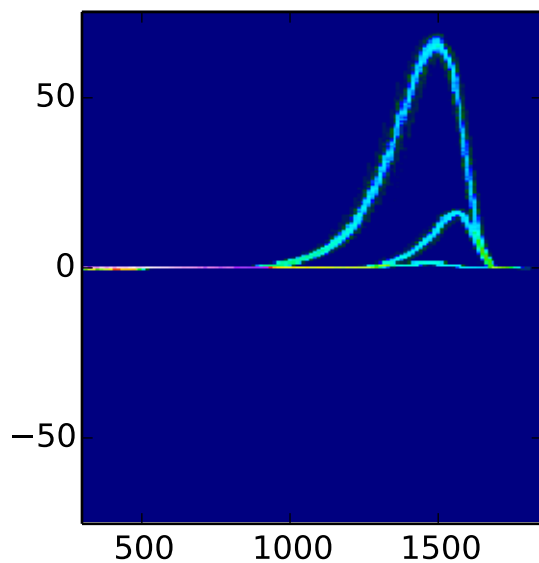
Curvature: -1200 : -400



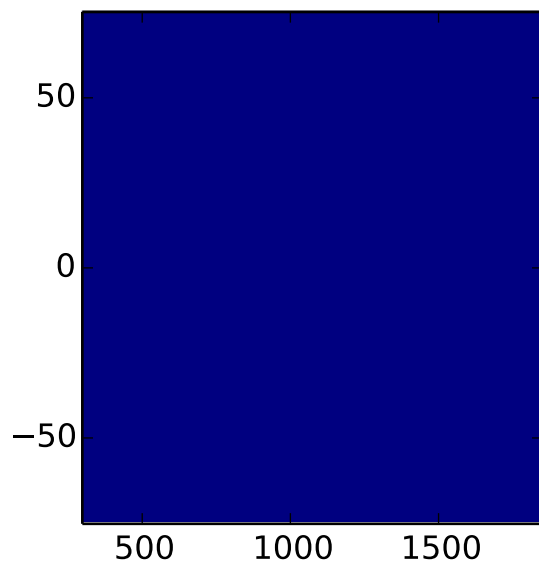
Curvature: -400 : 400



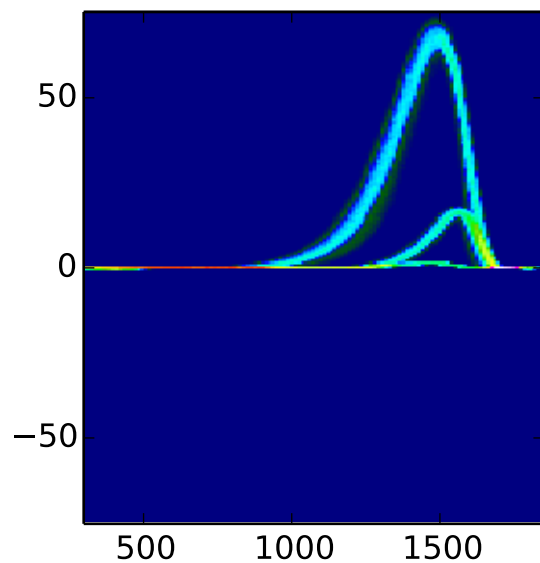
Curvature: 400 : 1200



Curvature: 1200 : 2000

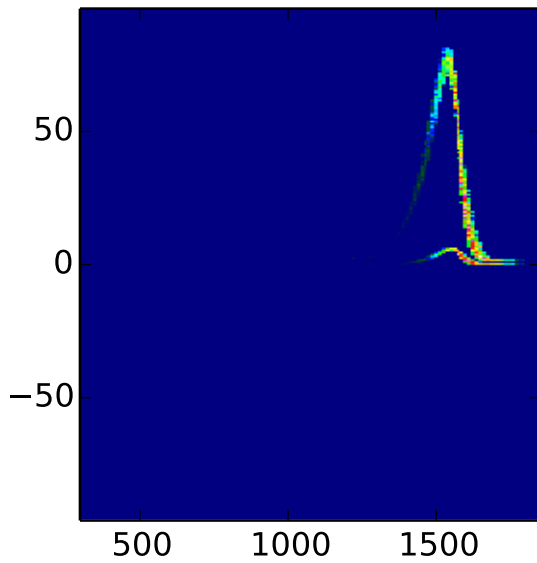


Sum

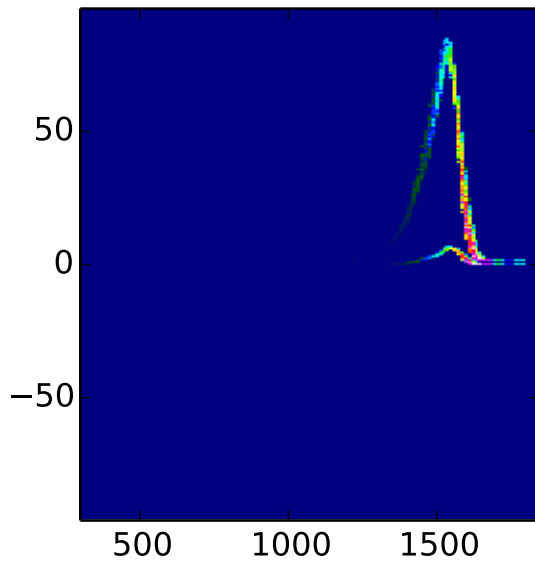


# Edge CH2 $\rightleftharpoons$ CH

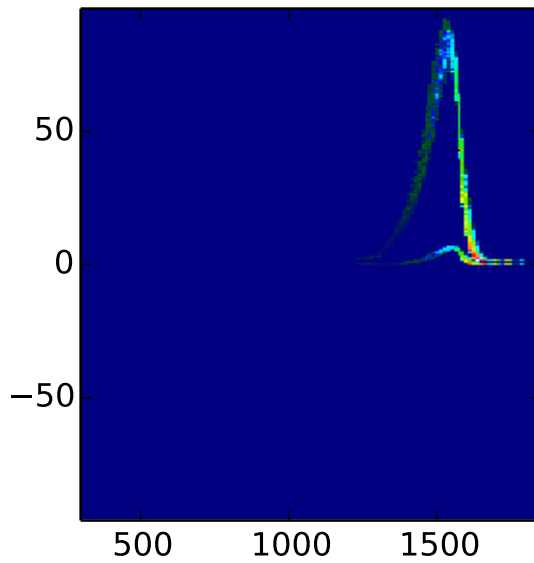
Curvature: -6000 : -5200



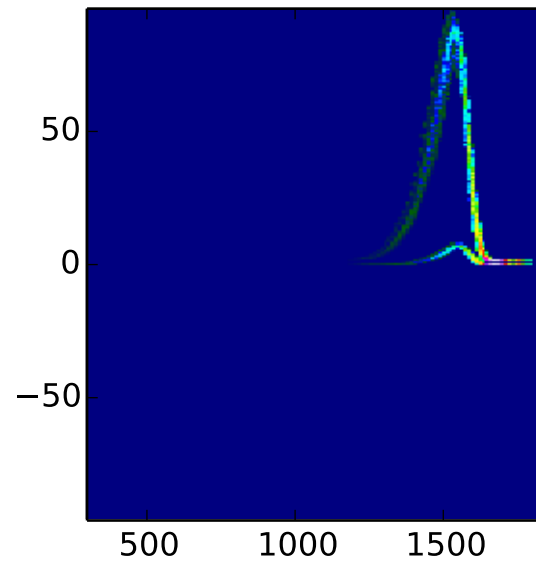
Curvature: -5200 : -4400



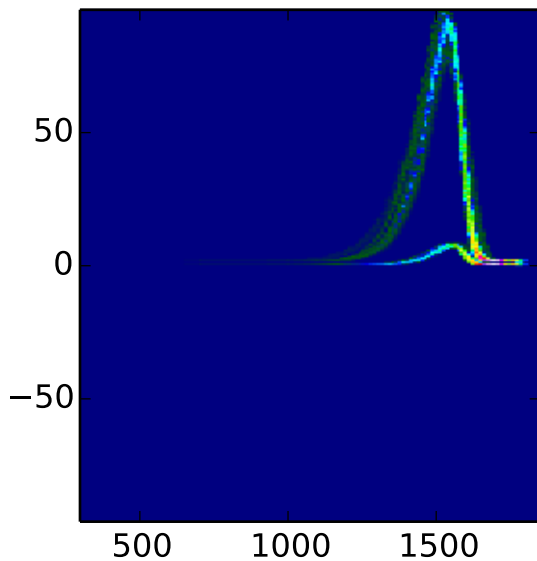
Curvature: -4400 : -3600



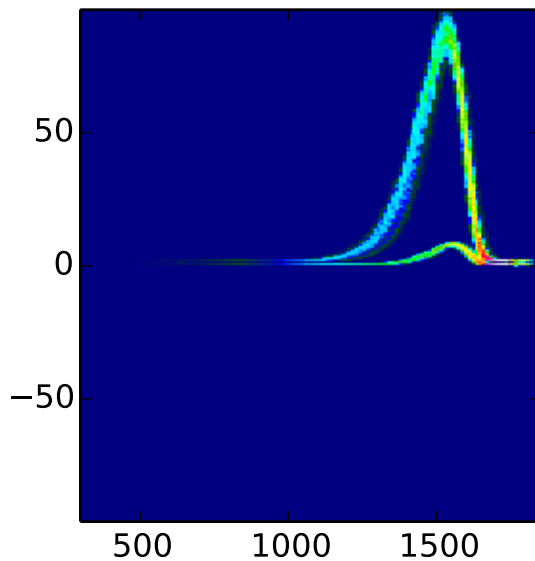
Curvature: -3600 : -2800



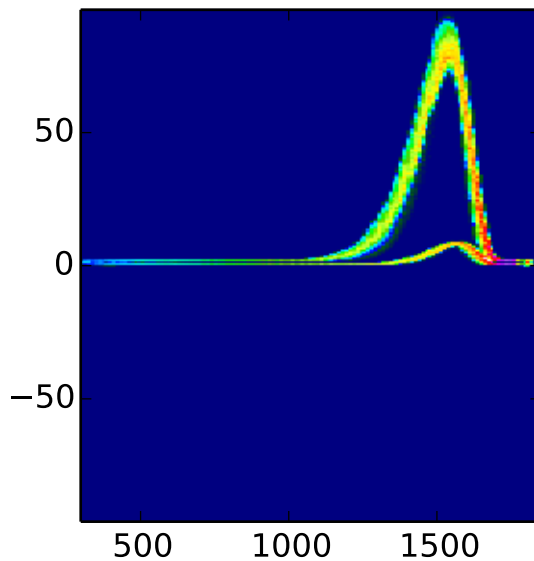
Curvature: -2800 : -2000



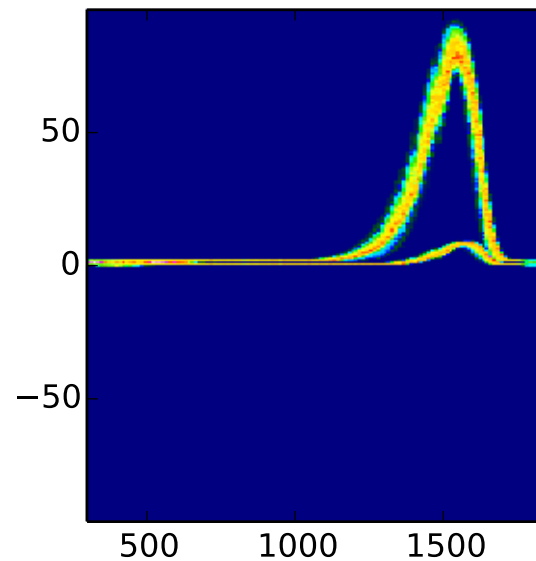
Curvature: -2000 : -1200



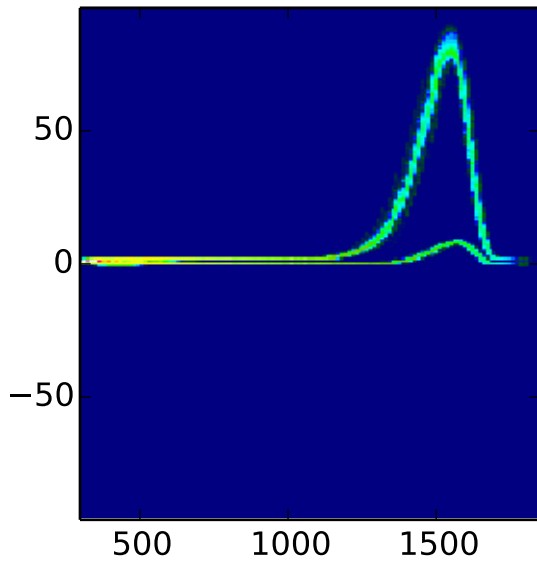
Curvature: -1200 : -400



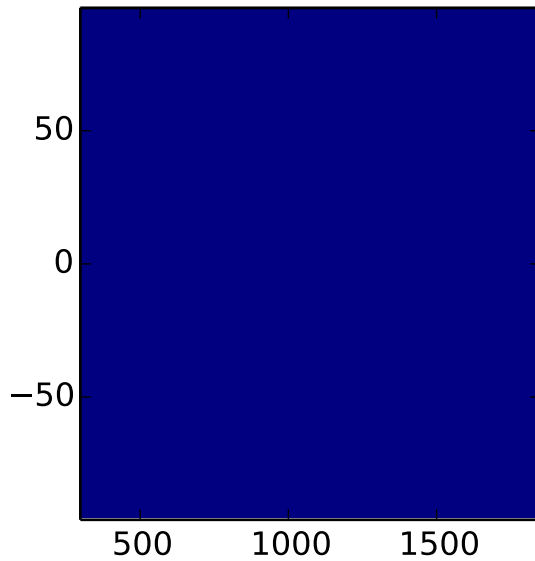
Curvature: -400 : 400



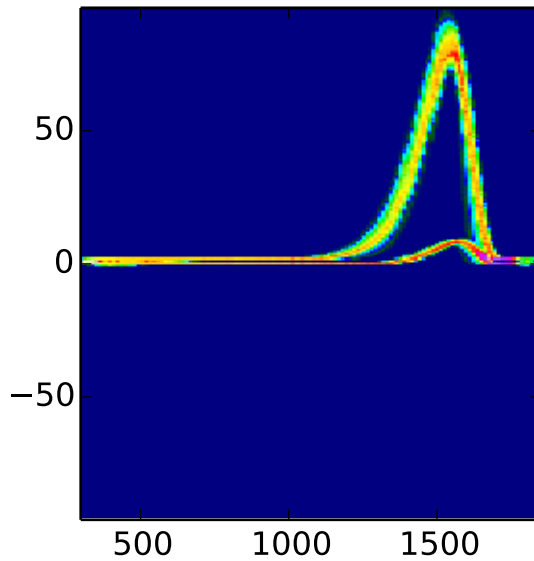
Curvature: 400 : 1200



Curvature: 1200 : 2000

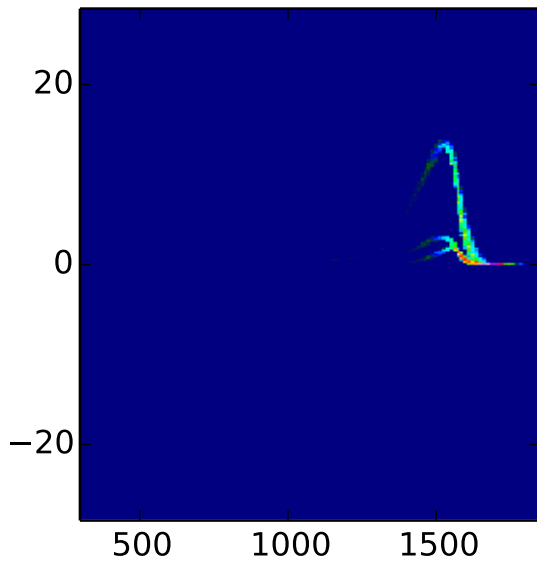


Sum

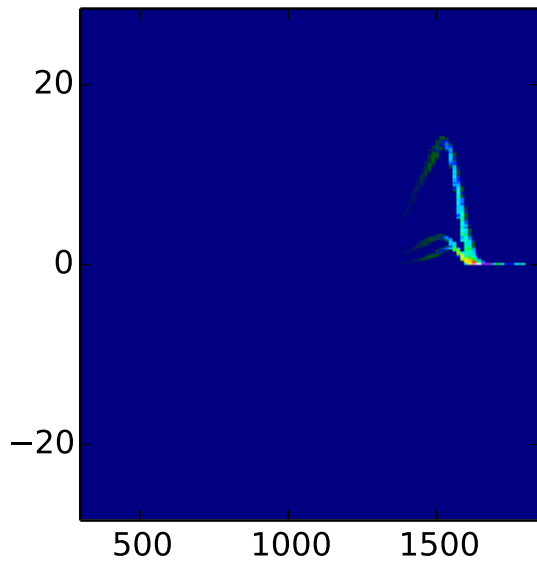


# Edge CH<sub>2</sub>(S) $\rightleftharpoons$ CH<sub>2</sub>O

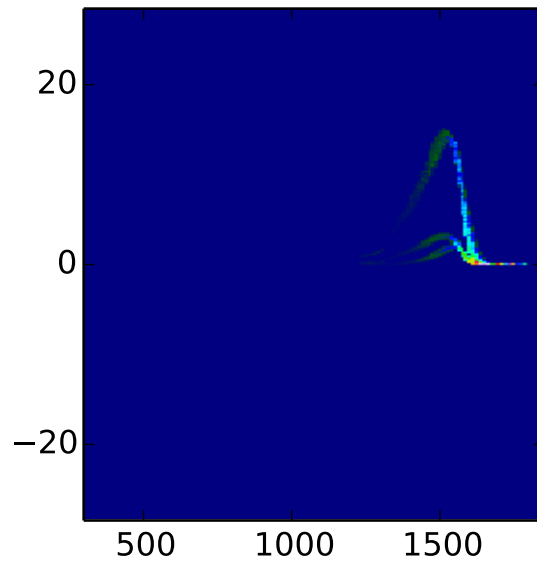
Curvature: -6000 : -5200



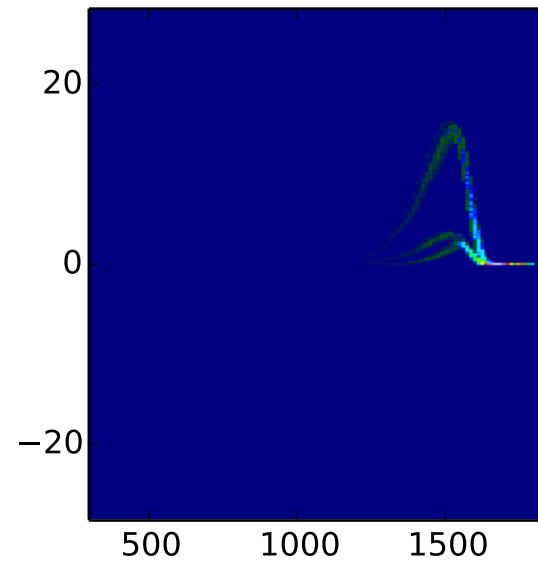
Curvature: -5200 : -4400



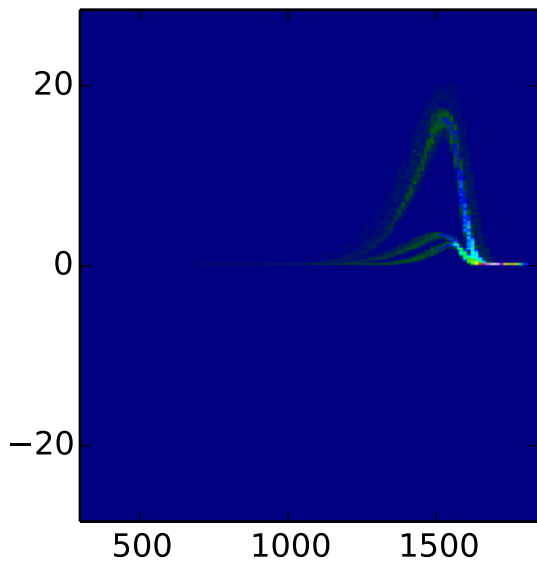
Curvature: -4400 : -3600



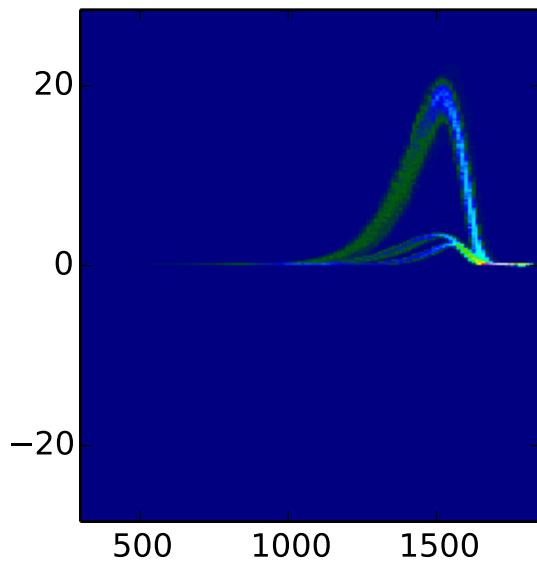
Curvature: -3600 : -2800



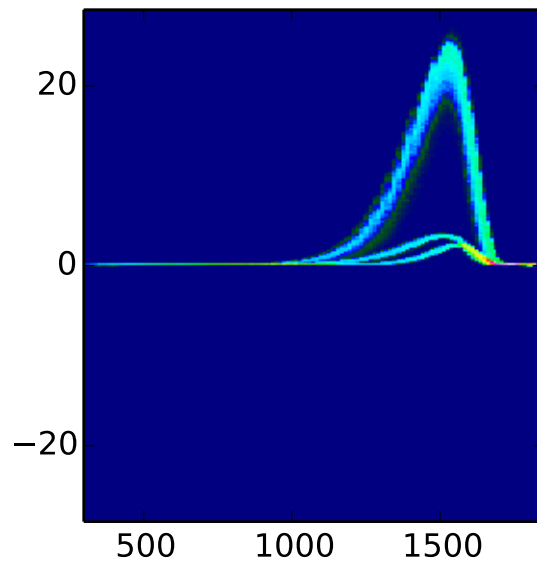
Curvature: -2800 : -2000



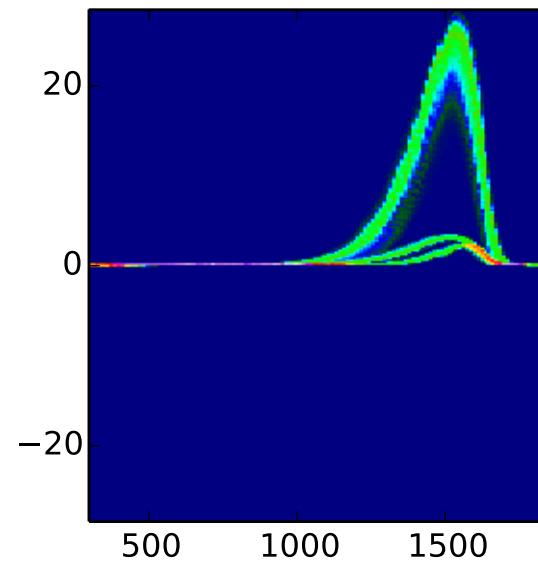
Curvature: -2000 : -1200



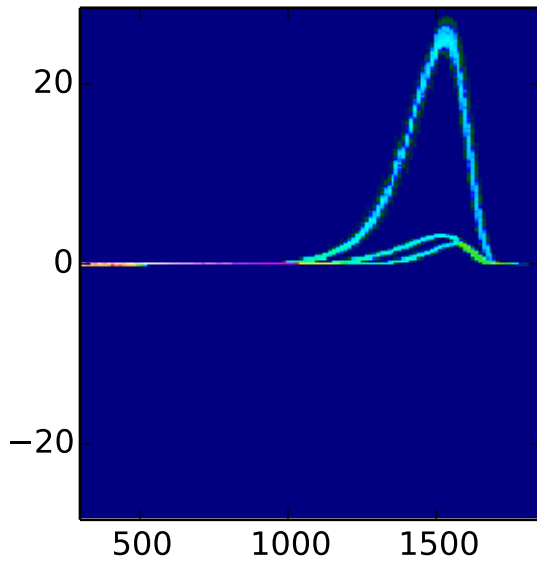
Curvature: -1200 : -400



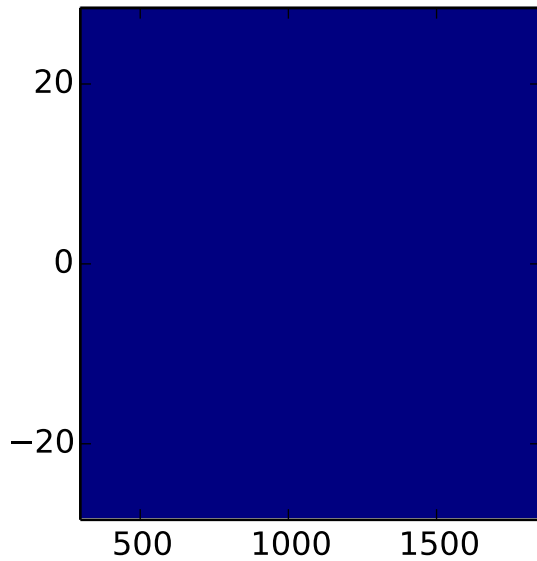
Curvature: -400 : 400



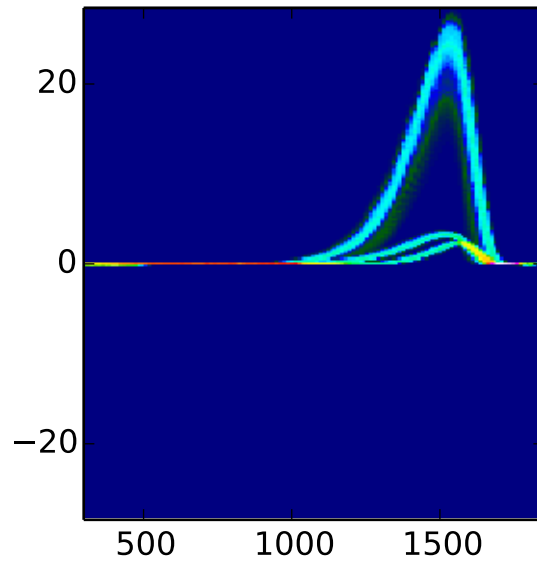
Curvature: 400 : 1200



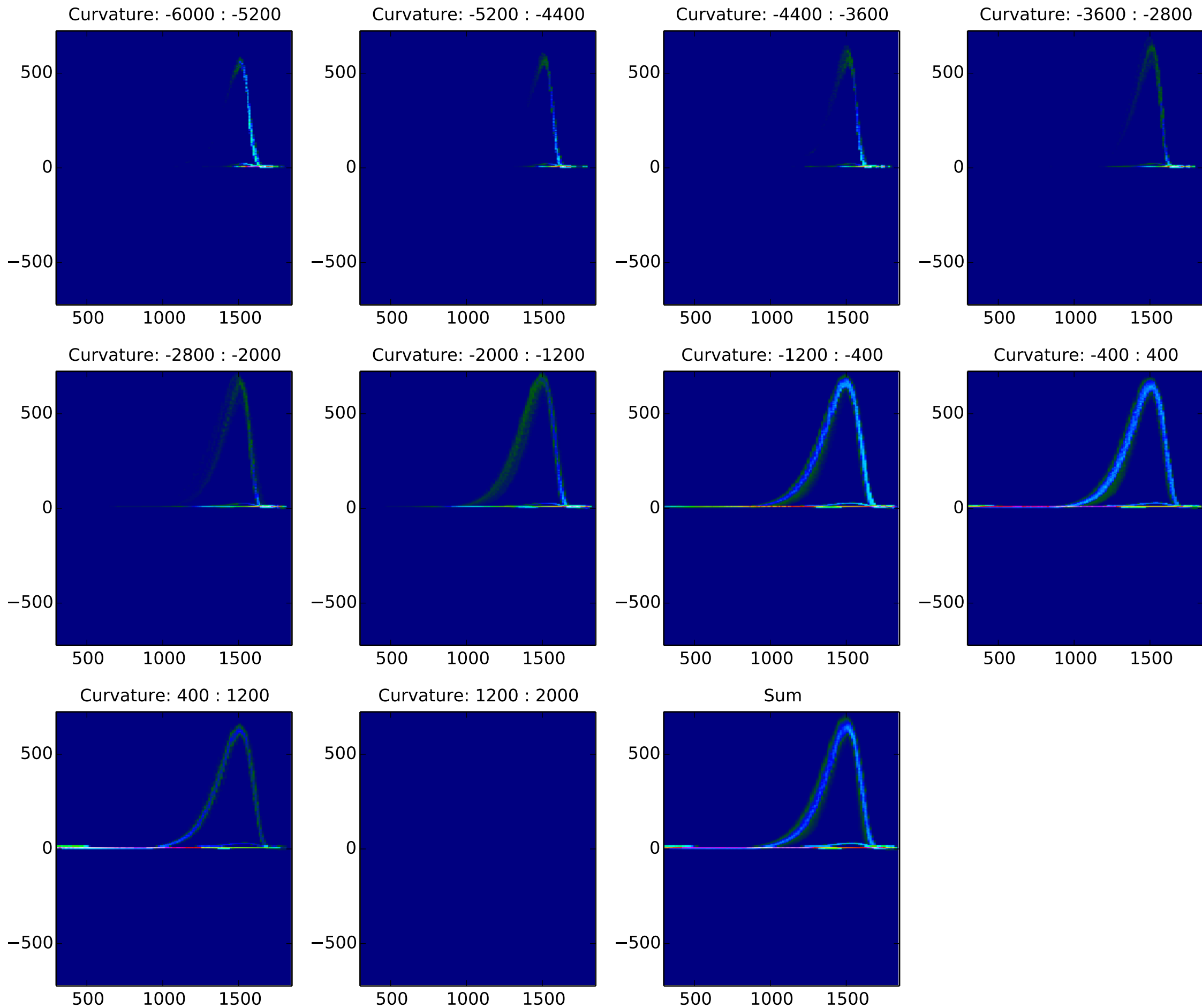
Curvature: 1200 : 2000



Sum

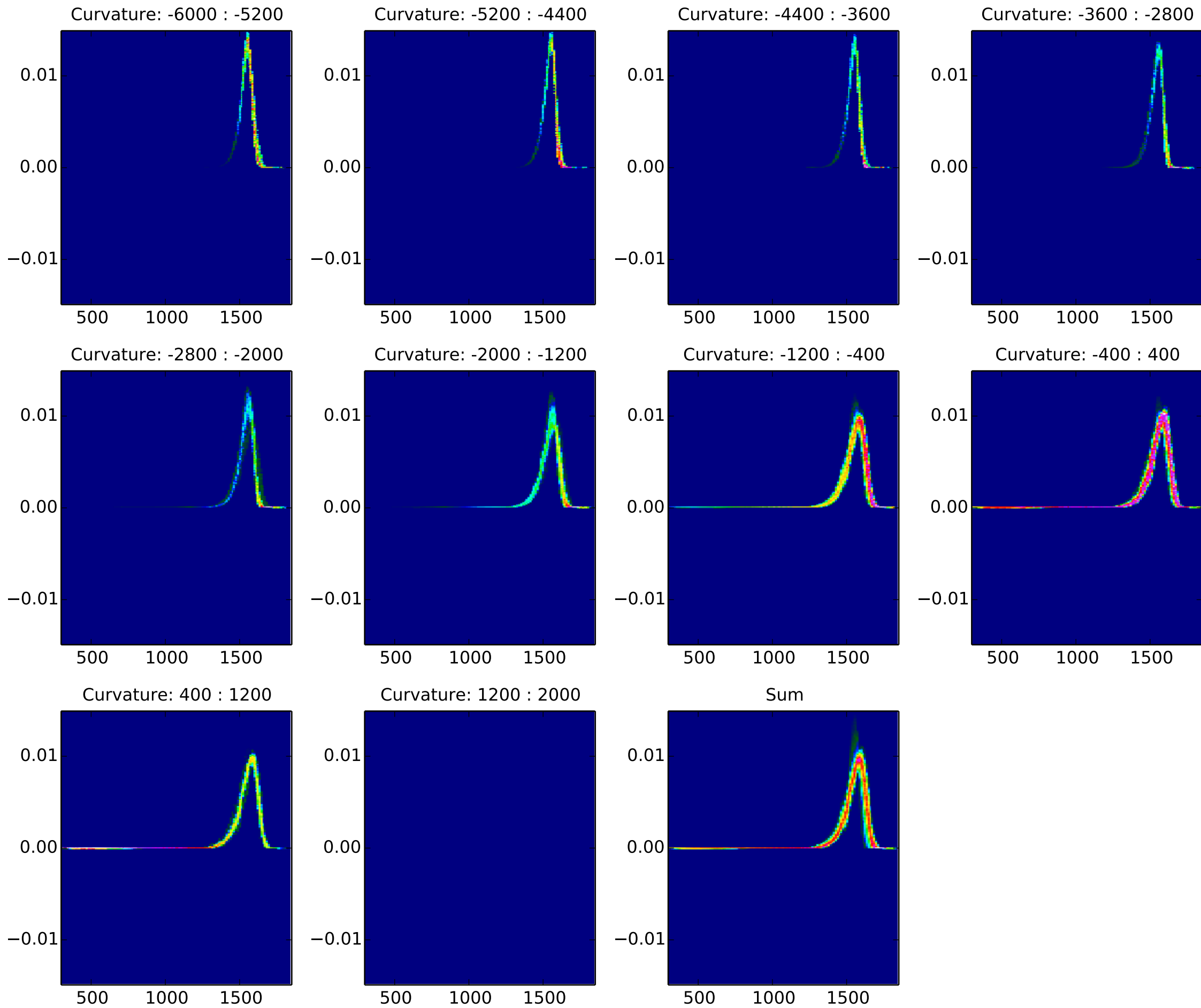


# Edge CH3 $\rightleftharpoons$ CH2(S)

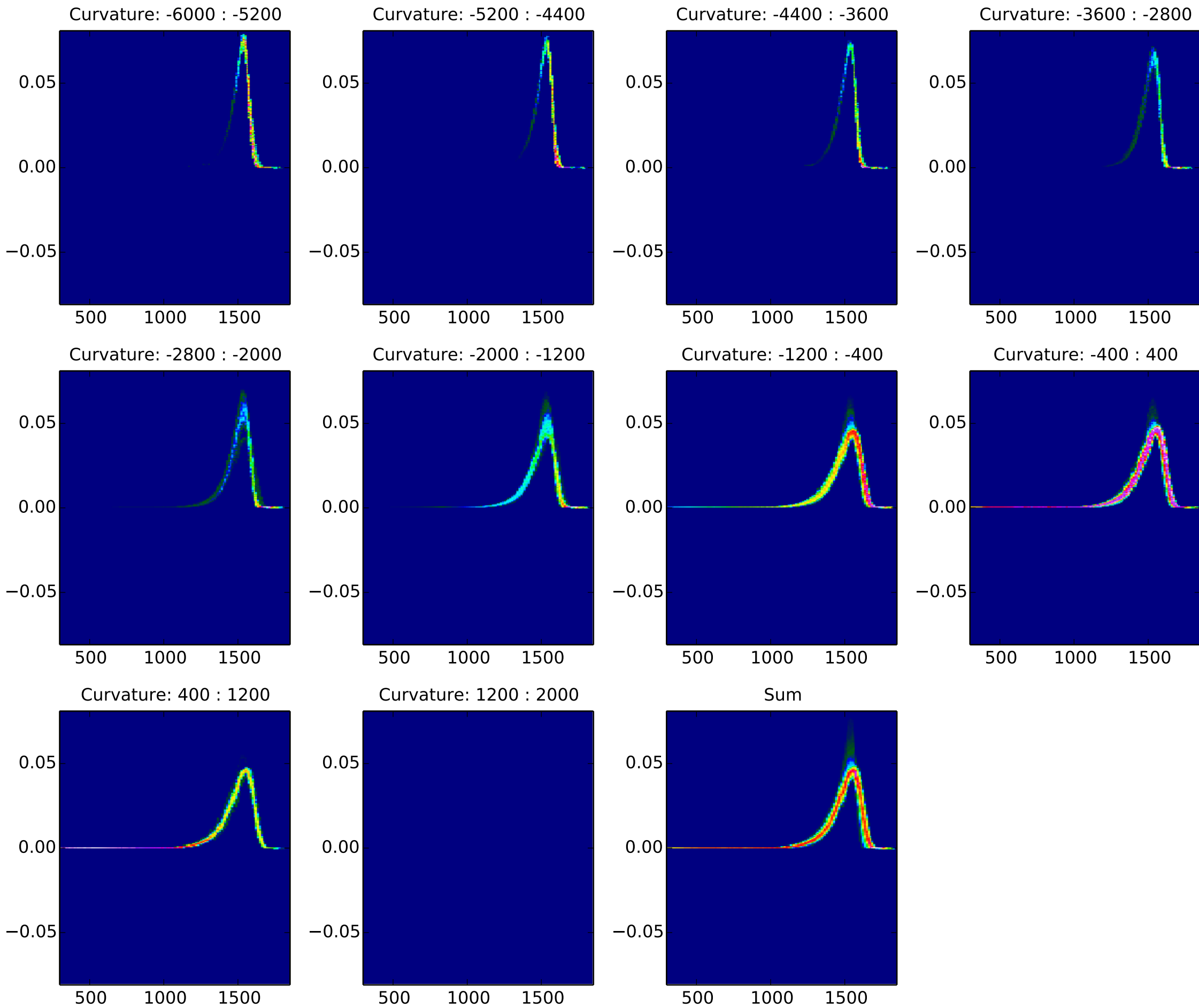




# Edge C2H $\rightleftharpoons$ HCCO

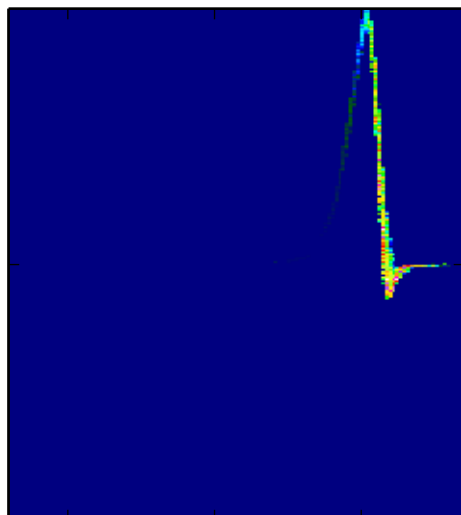


# Edge C2H2 $\rightleftharpoons$ CH2CO

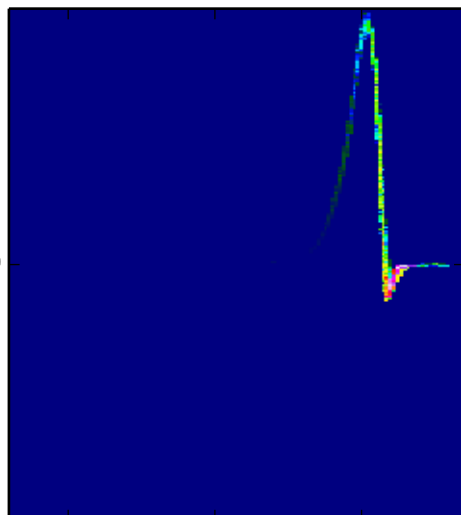


# Edge C2H2 $\rightleftharpoons$ HCCOH

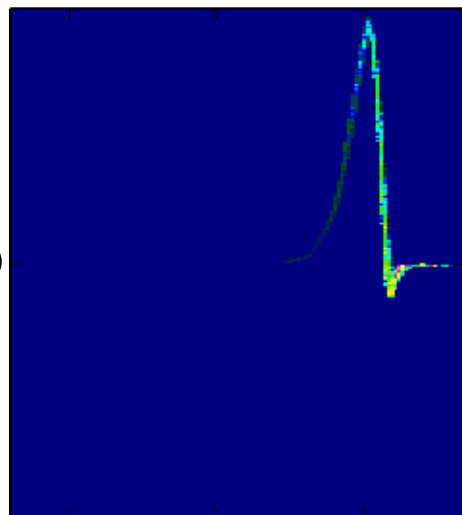
Curvature: -6000 : -5200



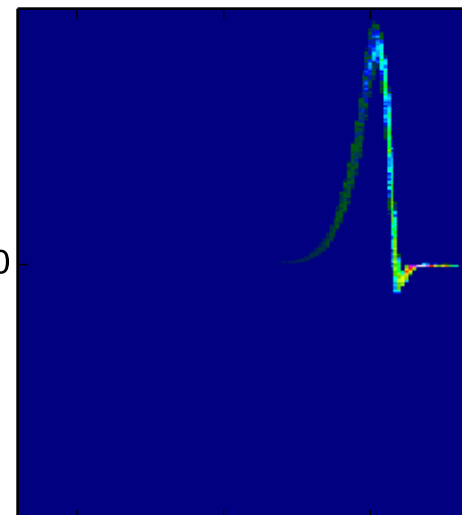
Curvature: -5200 : -4400



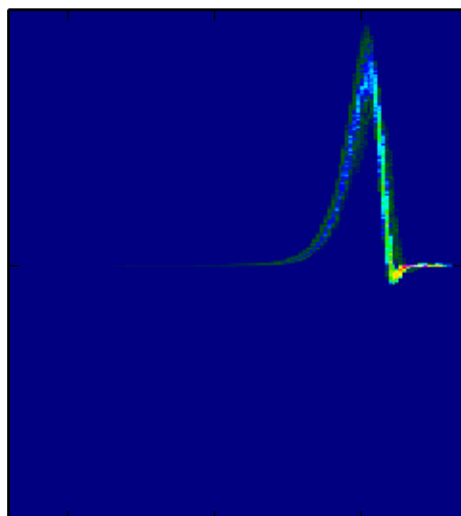
Curvature: -4400 : -3600



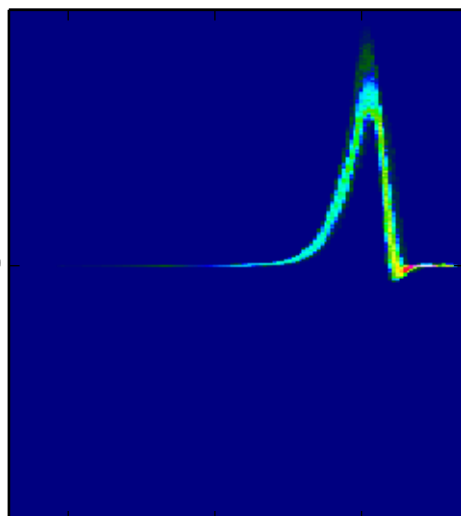
Curvature: -3600 : -2800



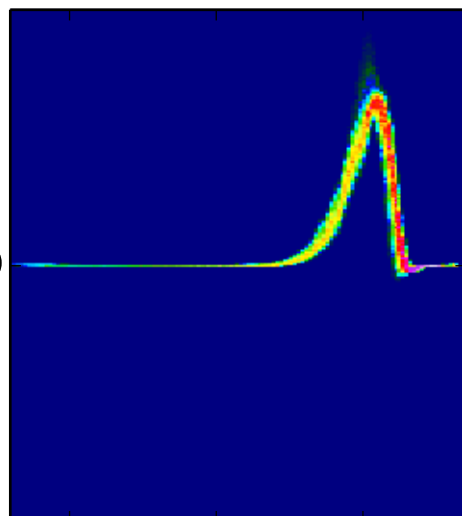
Curvature: -2800 : -2000



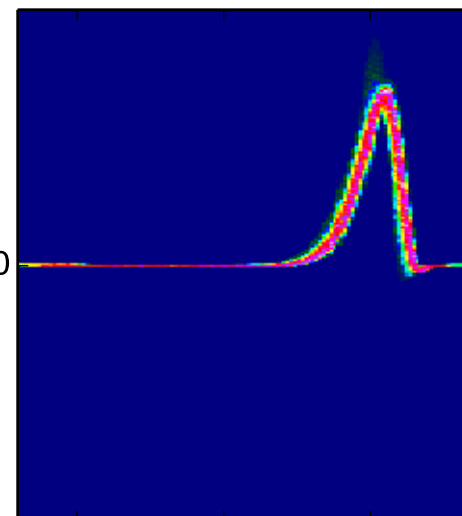
Curvature: -2000 : -1200



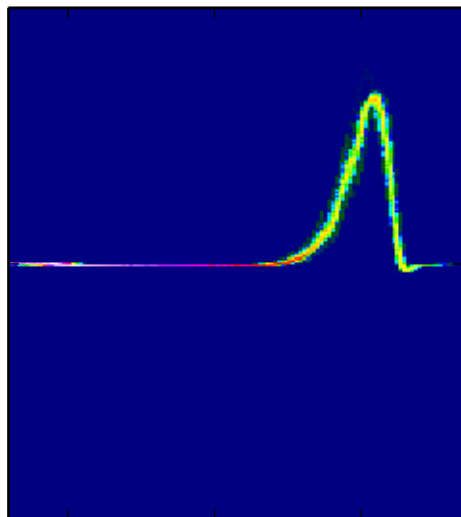
Curvature: -1200 : -400



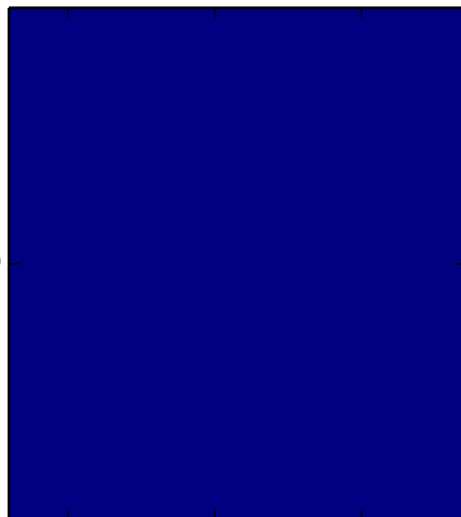
Curvature: -400 : 400



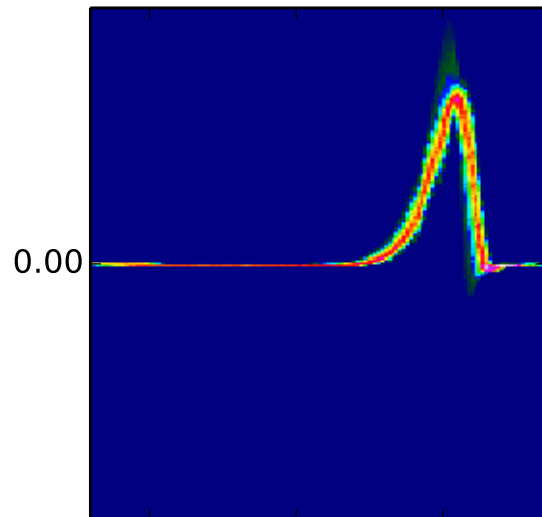
Curvature: 400 : 1200



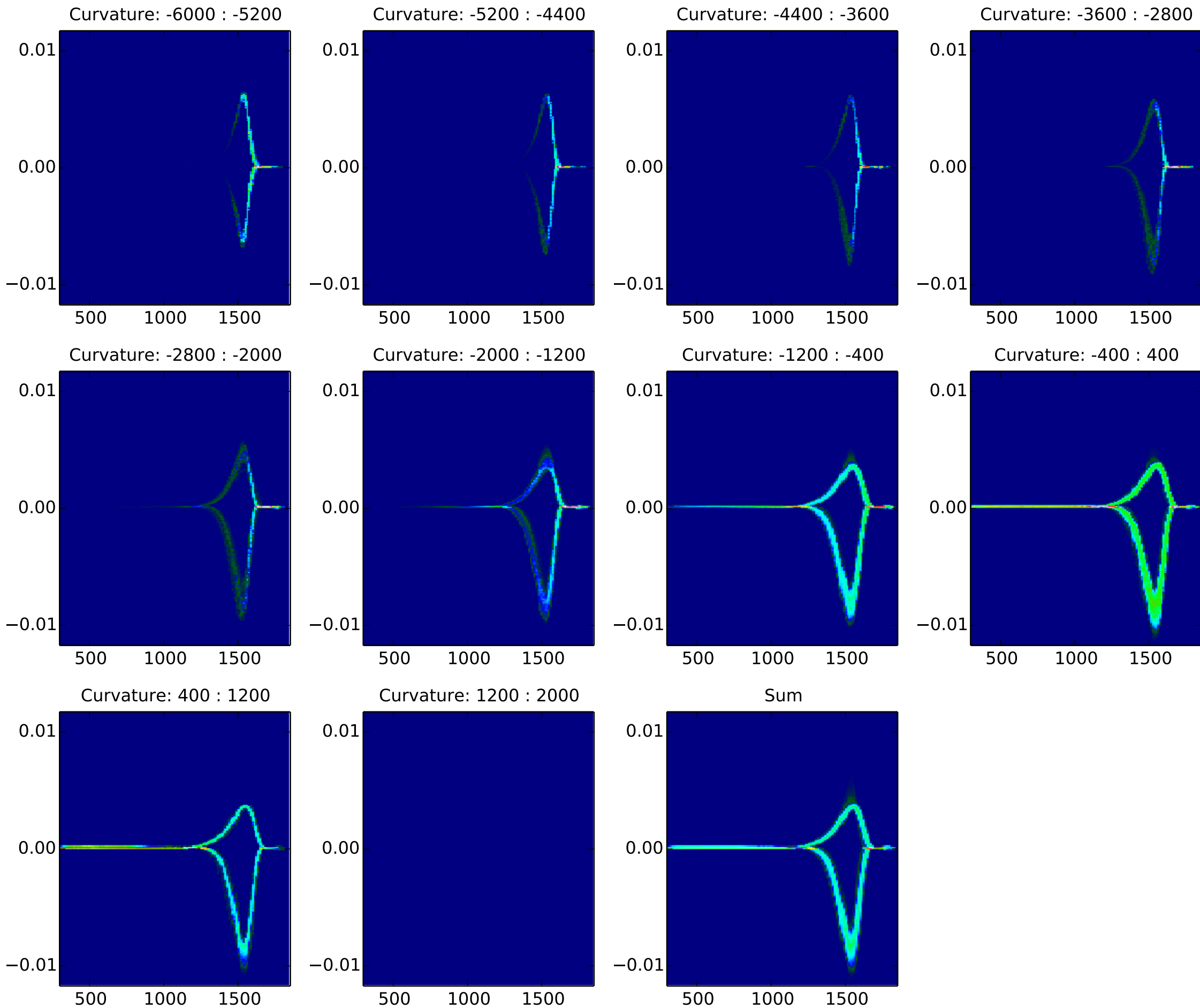
Curvature: 1200 : 2000



Sum

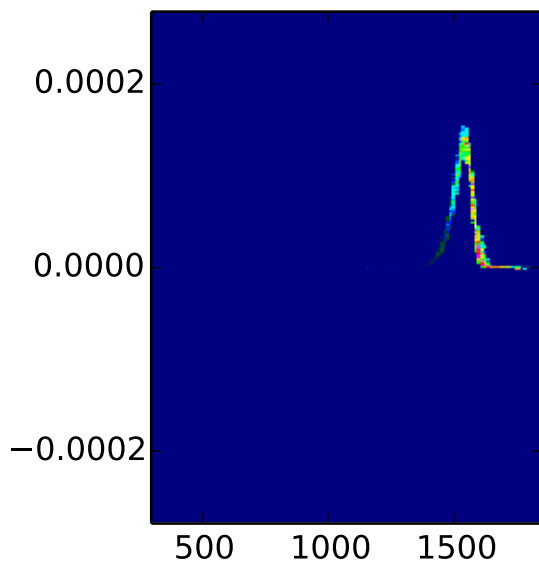


# Edge C2H2 $\rightleftharpoons$ CH3

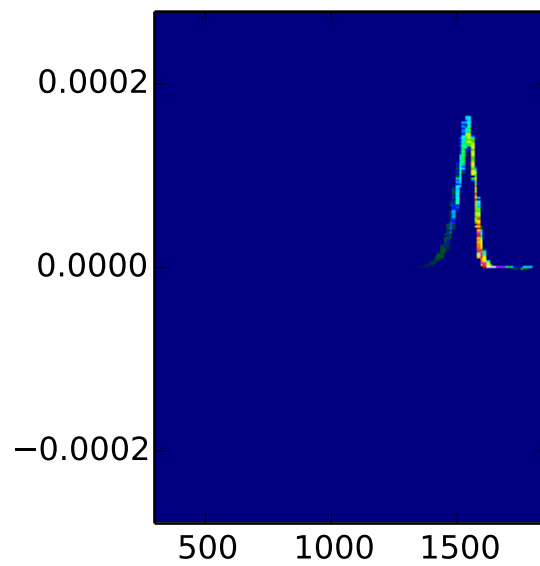


# Edge C $\Leftrightarrow$ C2H

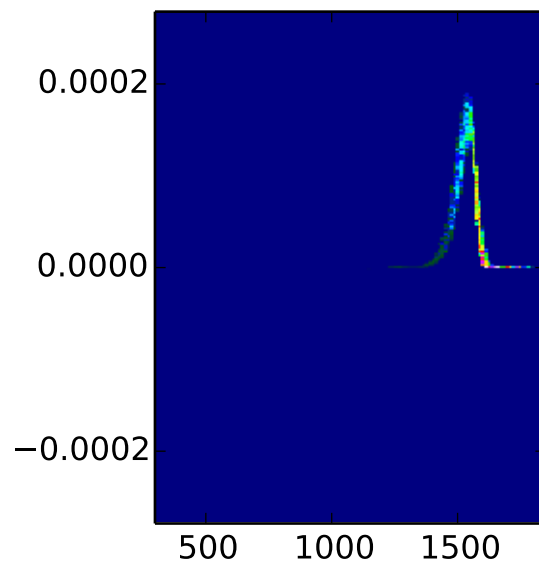
Curvature: -6000 : -5200



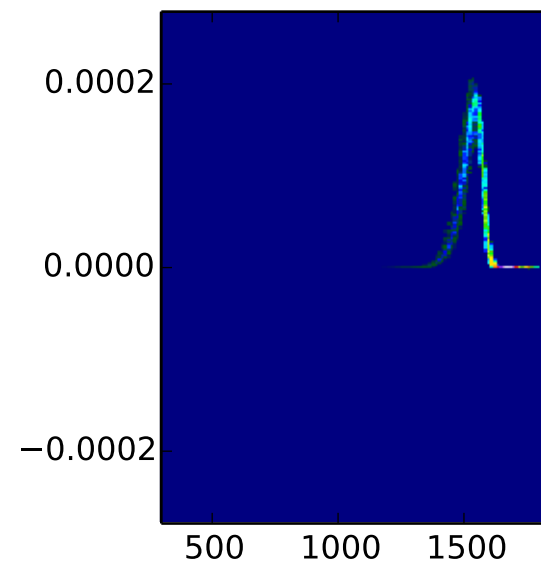
Curvature: -5200 : -4400



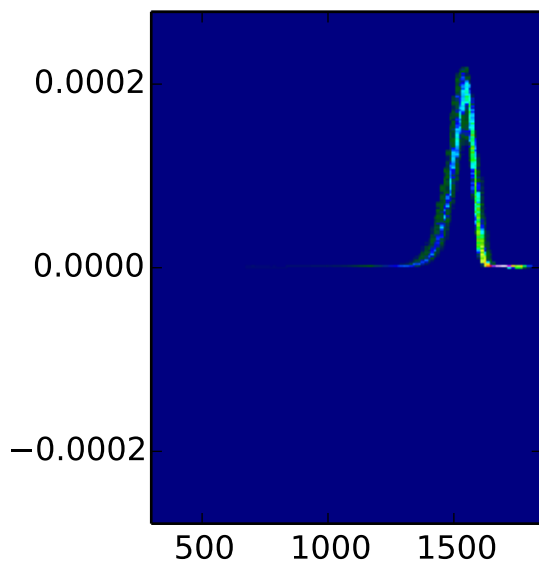
Curvature: -4400 : -3600



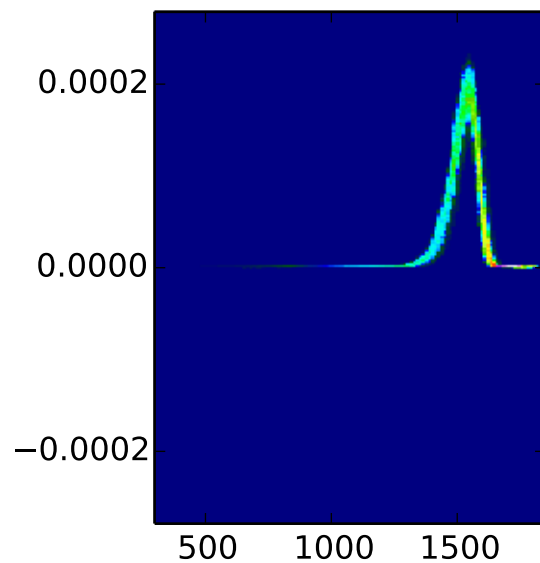
Curvature: -3600 : -2800



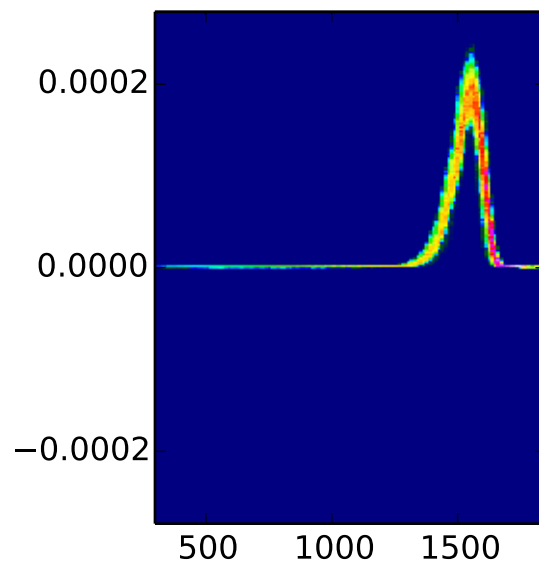
Curvature: -2800 : -2000



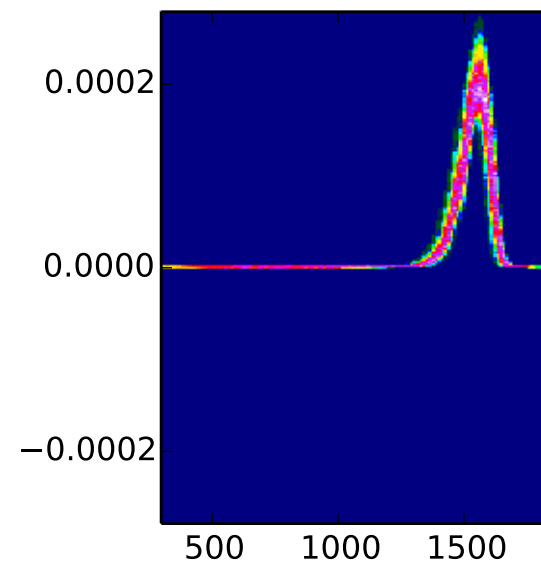
Curvature: -2000 : -1200



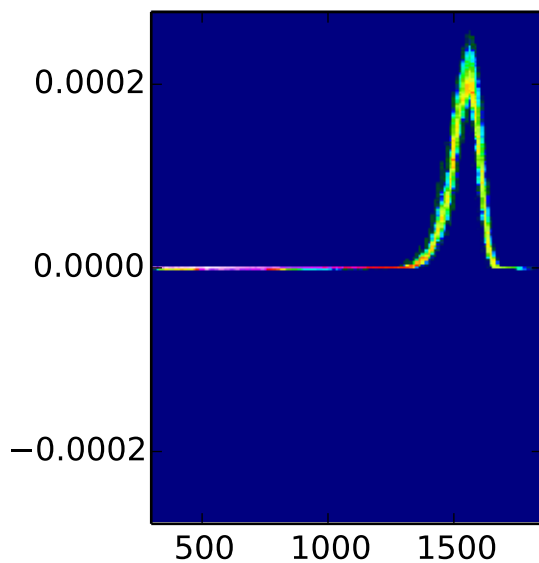
Curvature: -1200 : -400



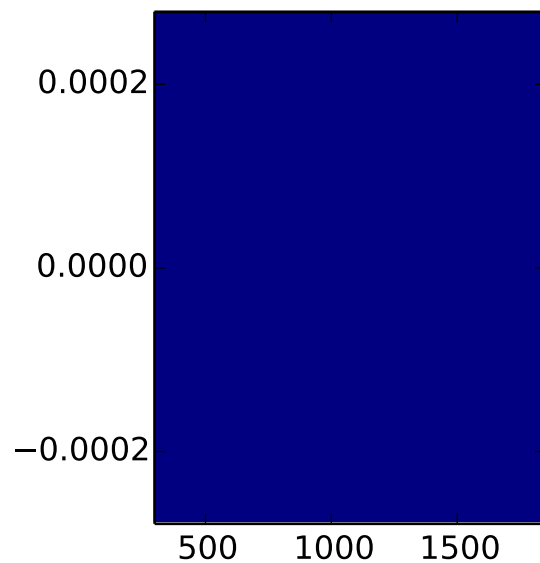
Curvature: -400 : 400



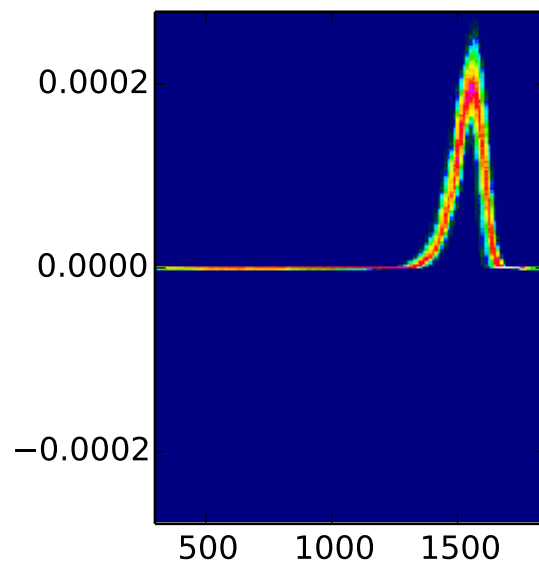
Curvature: 400 : 1200



Curvature: 1200 : 2000

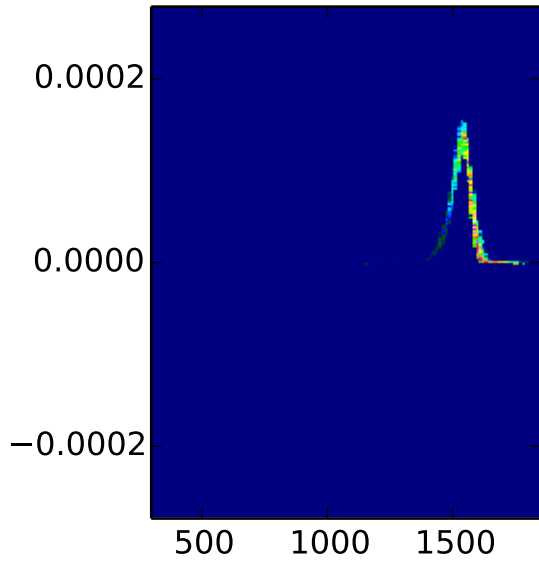


Sum

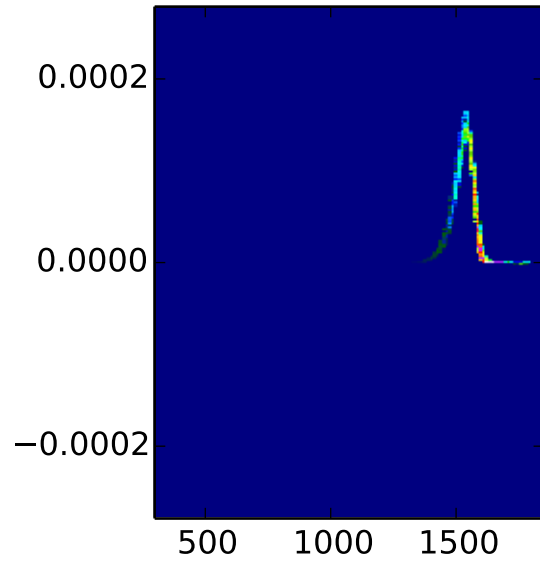


# Edge CH2 $\rightleftharpoons$ C2H

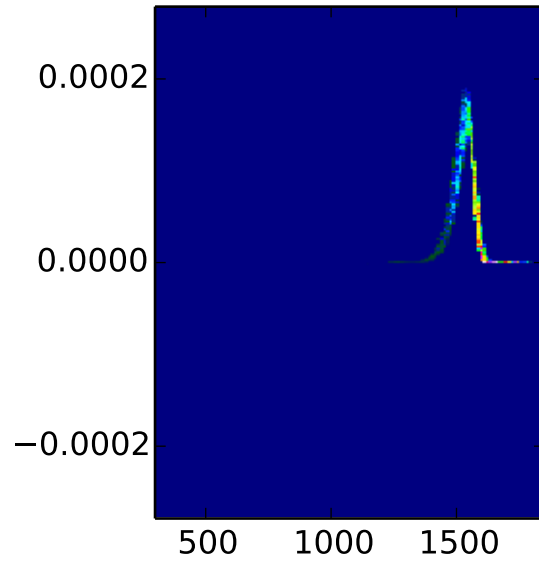
Curvature: -6000 : -5200



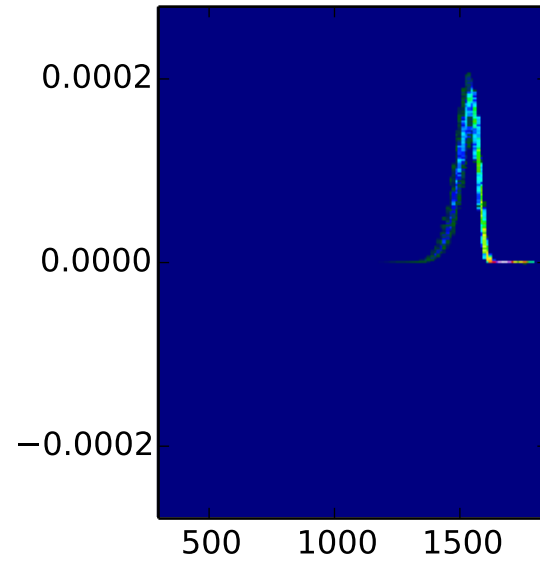
Curvature: -5200 : -4400



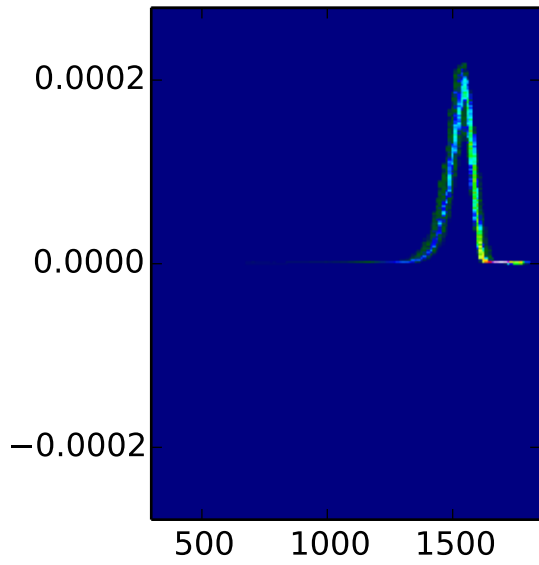
Curvature: -4400 : -3600



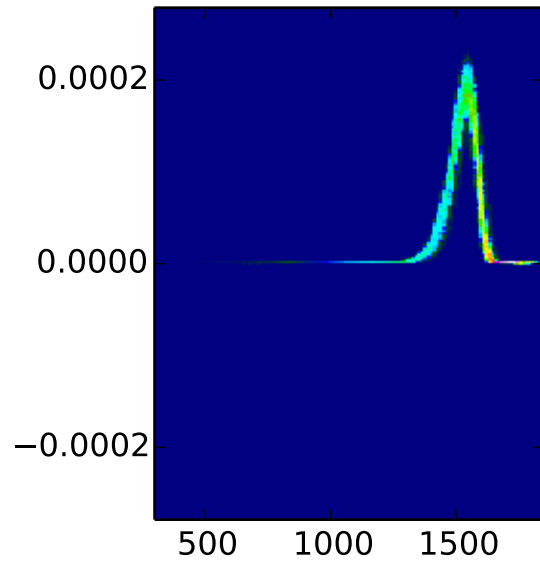
Curvature: -3600 : -2800



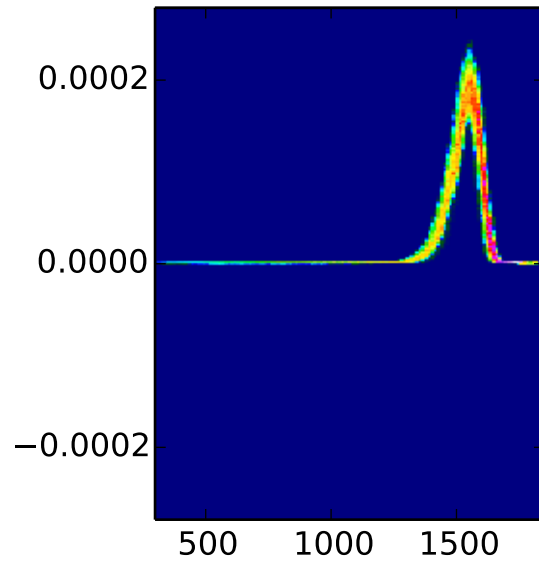
Curvature: -2800 : -2000



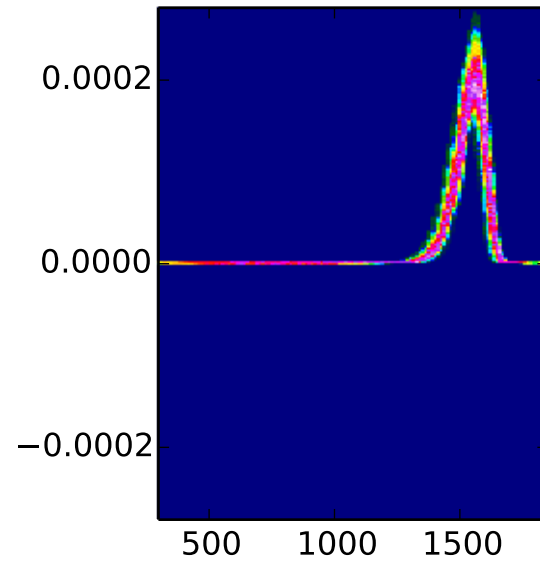
Curvature: -2000 : -1200



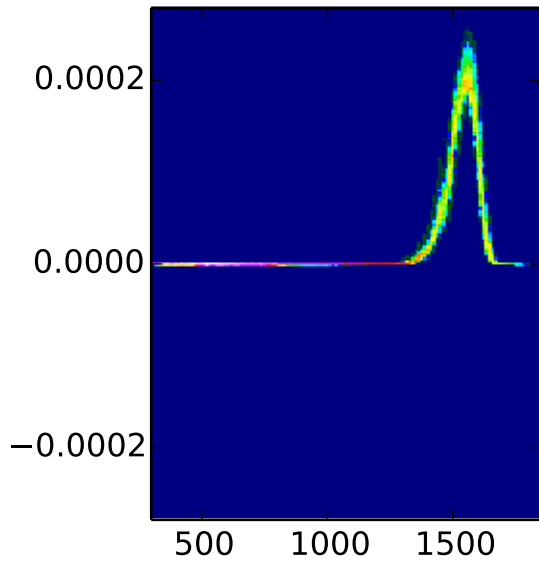
Curvature: -1200 : -400



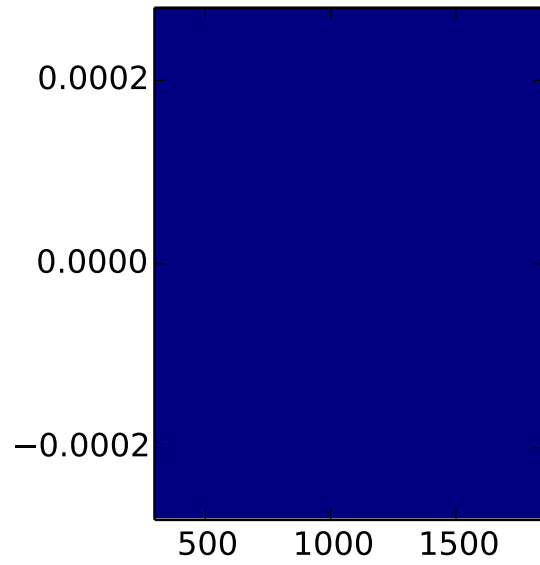
Curvature: -400 : 400



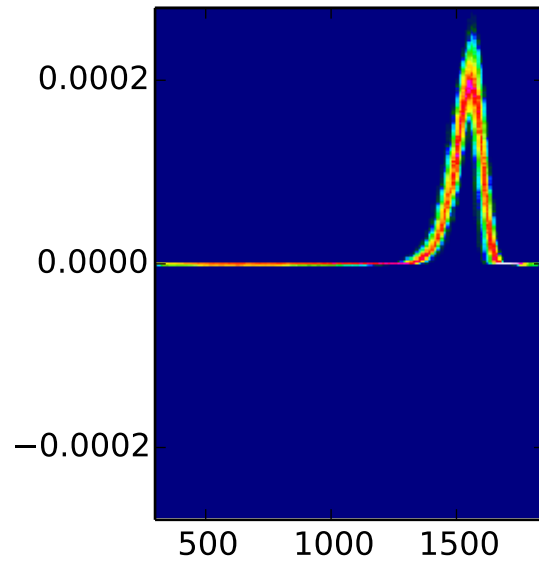
Curvature: 400 : 1200



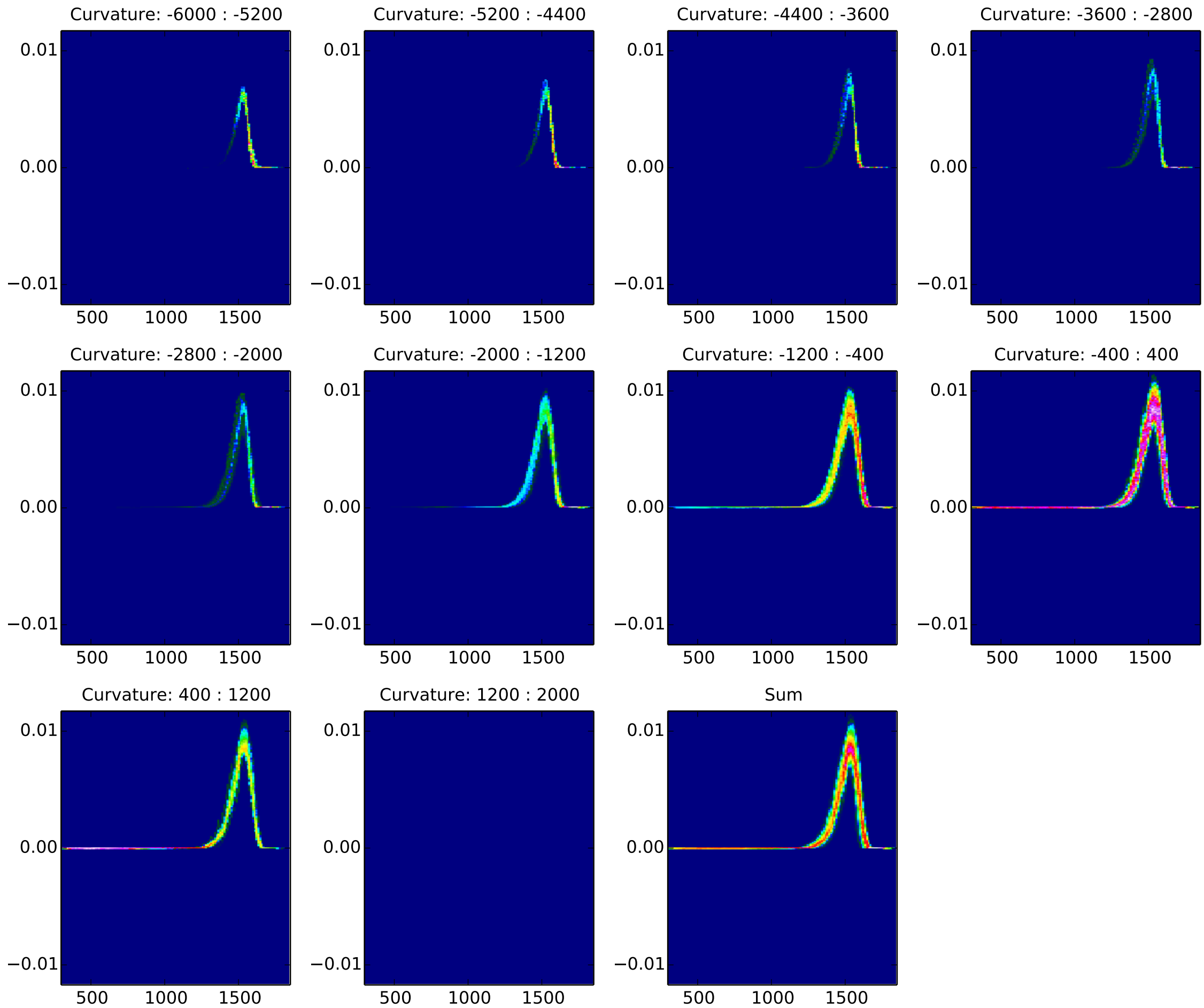
Curvature: 1200 : 2000



Sum

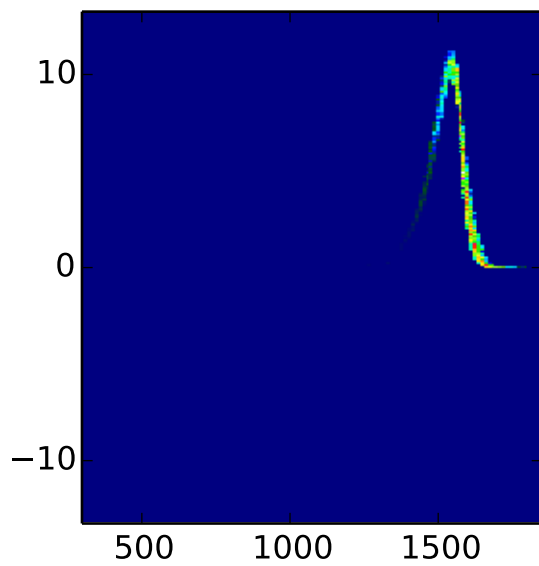


# Edge C $\Leftrightarrow$ C2H2

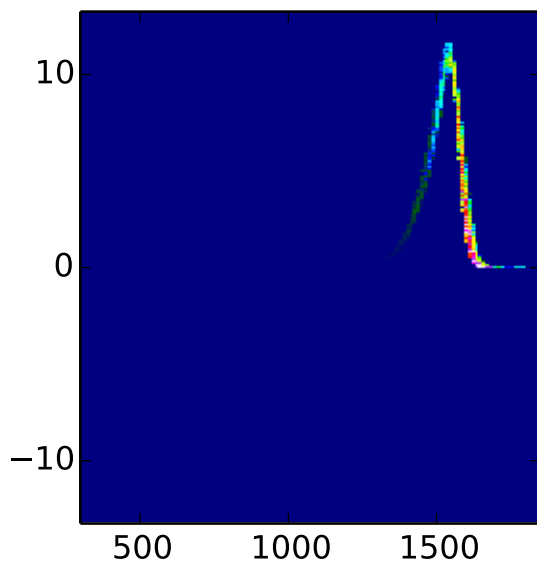


# Edge CH $\rightleftharpoons$ CH<sub>2</sub>O

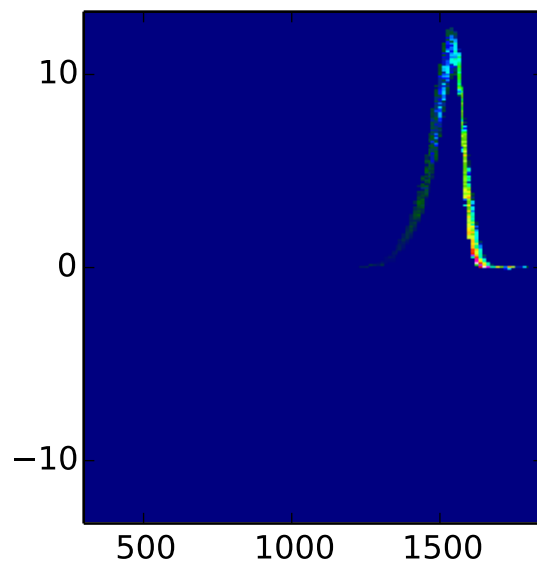
Curvature: -6000 : -5200



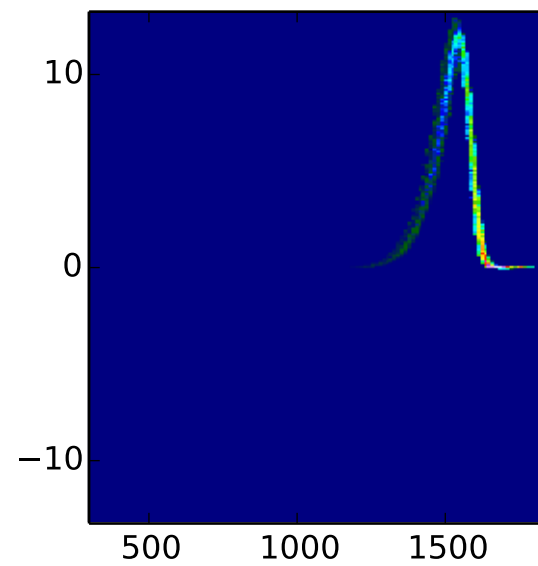
Curvature: -5200 : -4400



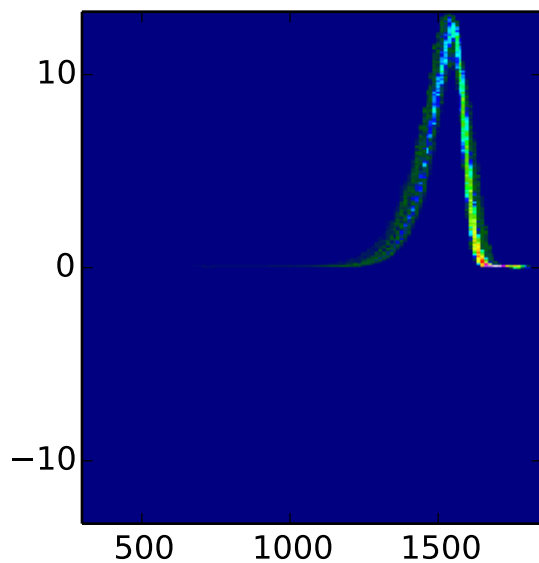
Curvature: -4400 : -3600



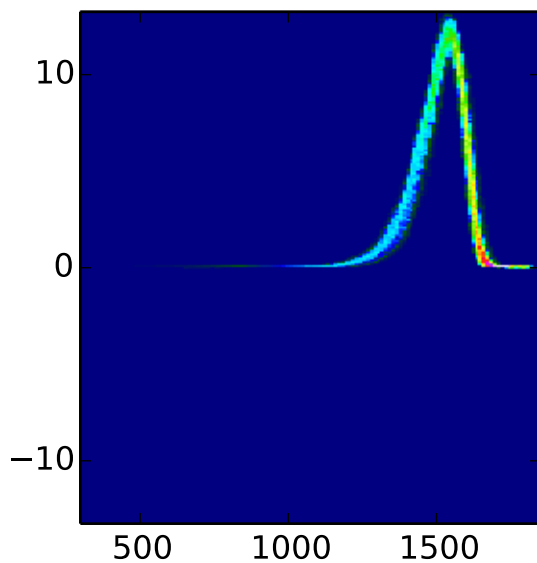
Curvature: -3600 : -2800



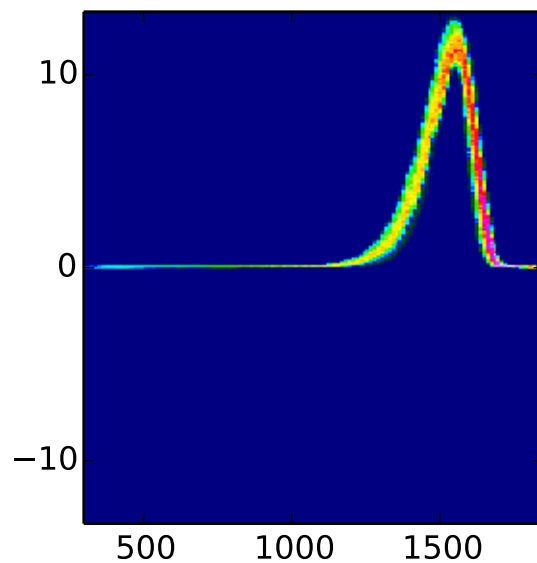
Curvature: -2800 : -2000



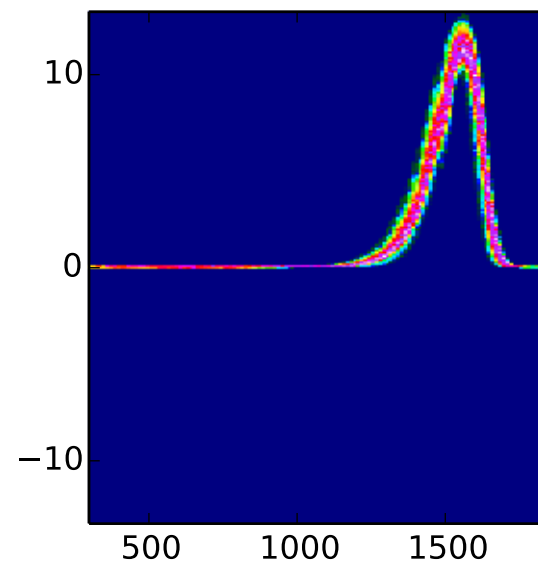
Curvature: -2000 : -1200



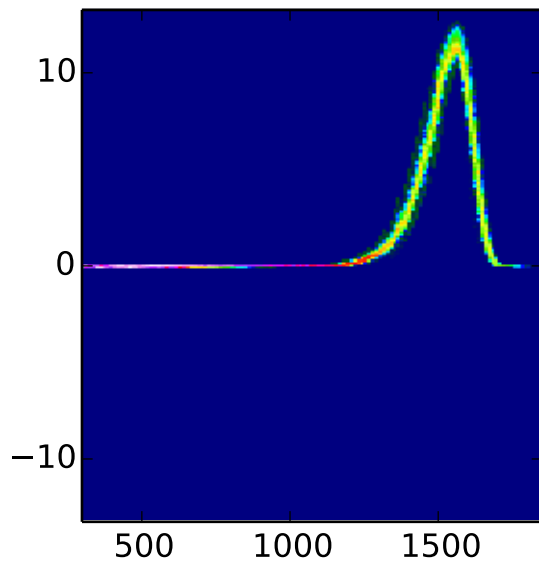
Curvature: -1200 : -400



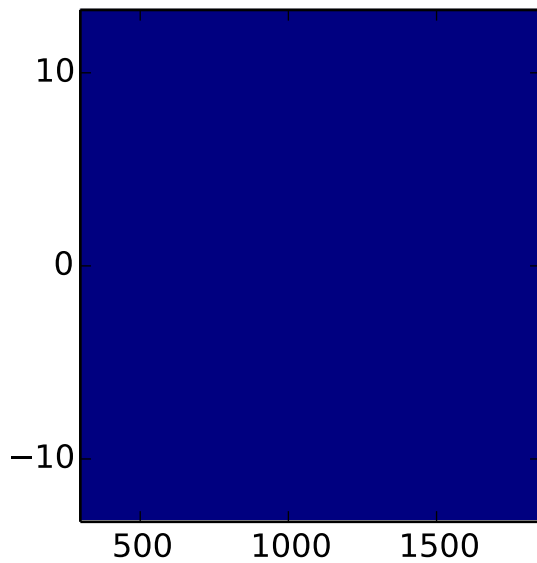
Curvature: -400 : 400



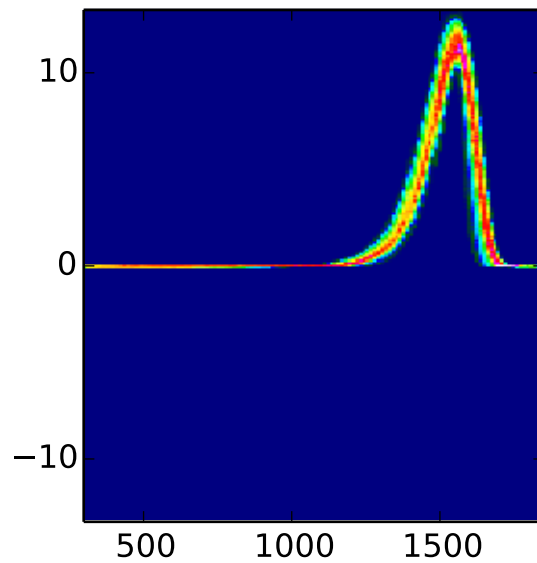
Curvature: 400 : 1200



Curvature: 1200 : 2000

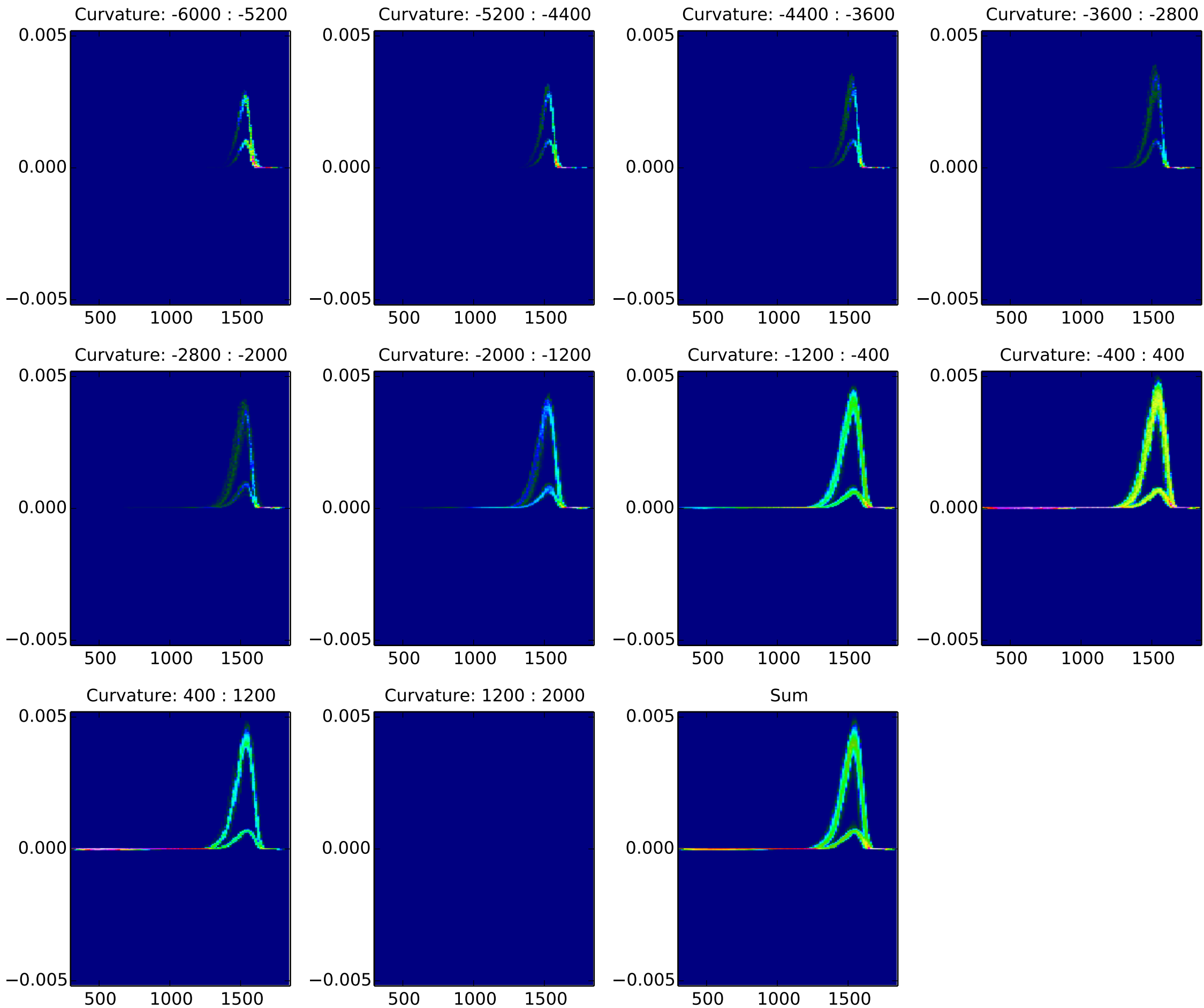


Sum



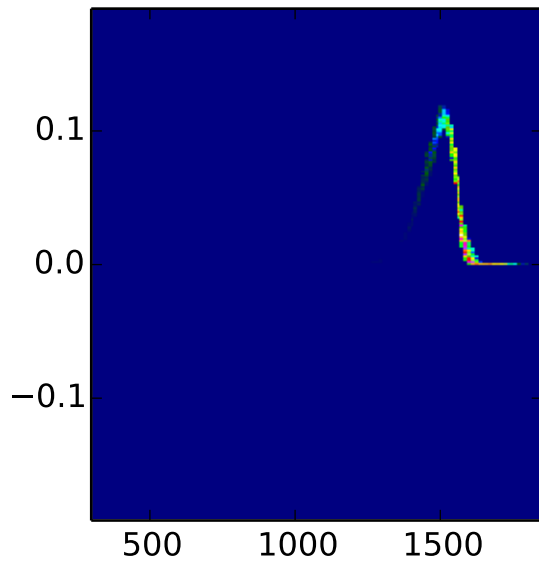


# Edge CH $\rightleftharpoons$ C2H2

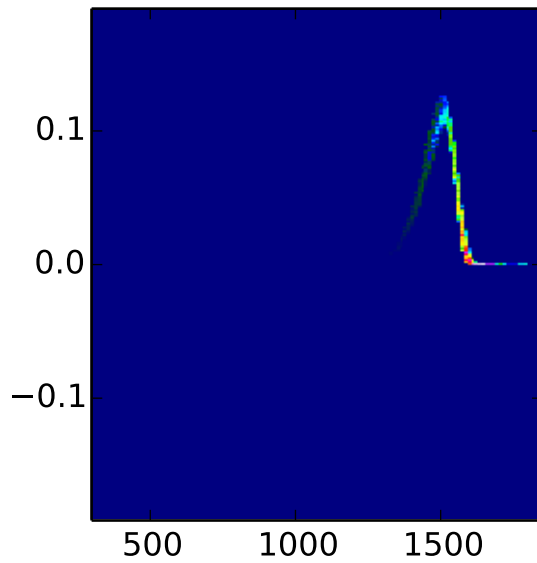


# Edge CH $\rightleftharpoons$ C2H3

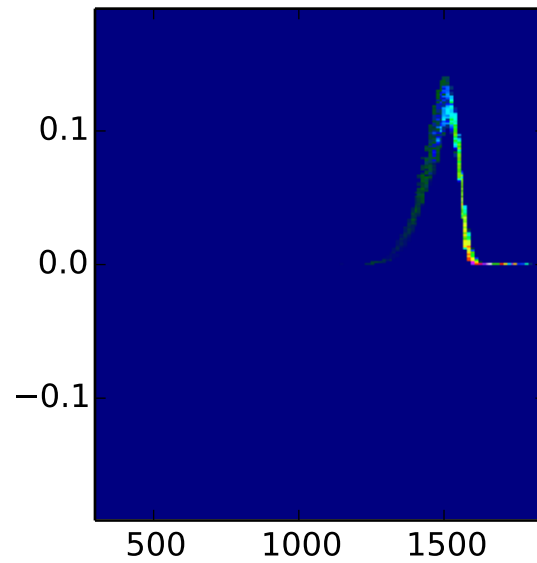
Curvature: -6000 : -5200



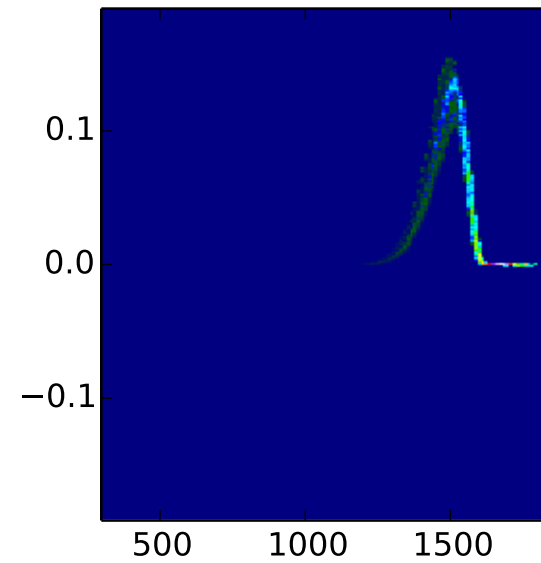
Curvature: -5200 : -4400



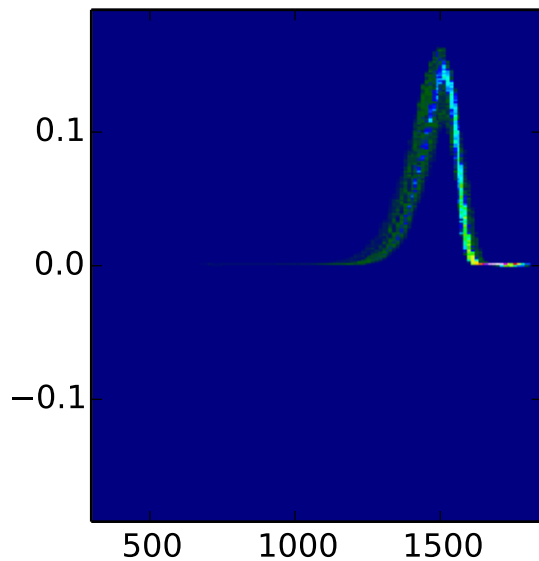
Curvature: -4400 : -3600



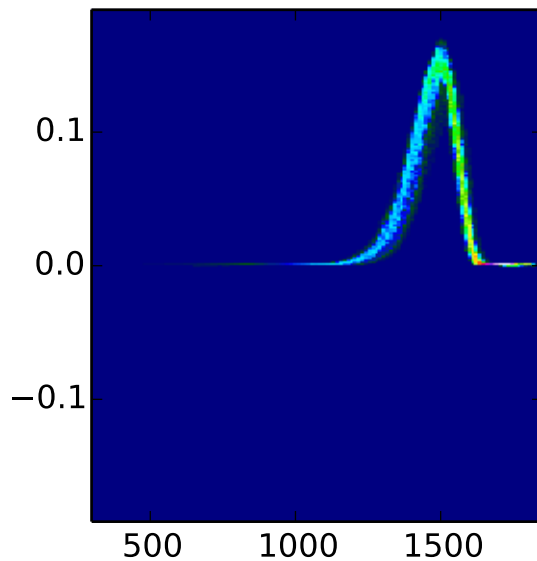
Curvature: -3600 : -2800



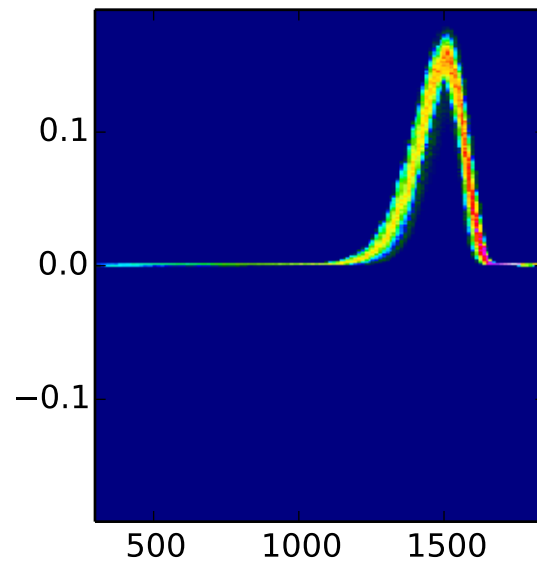
Curvature: -2800 : -2000



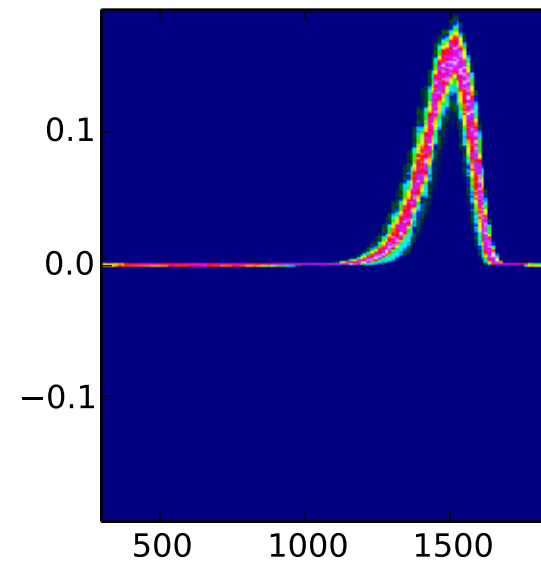
Curvature: -2000 : -1200



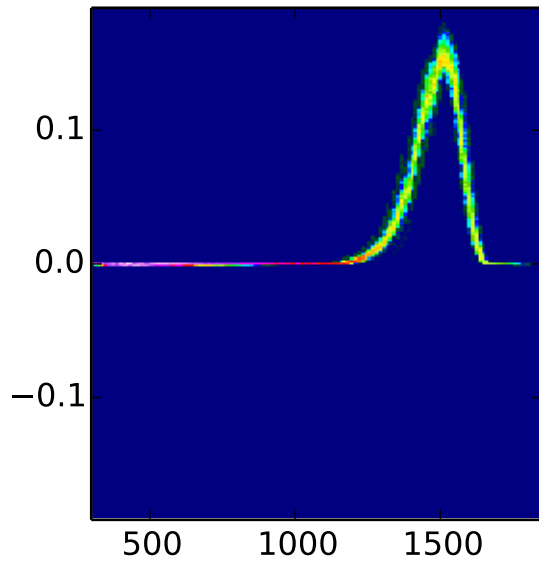
Curvature: -1200 : -400



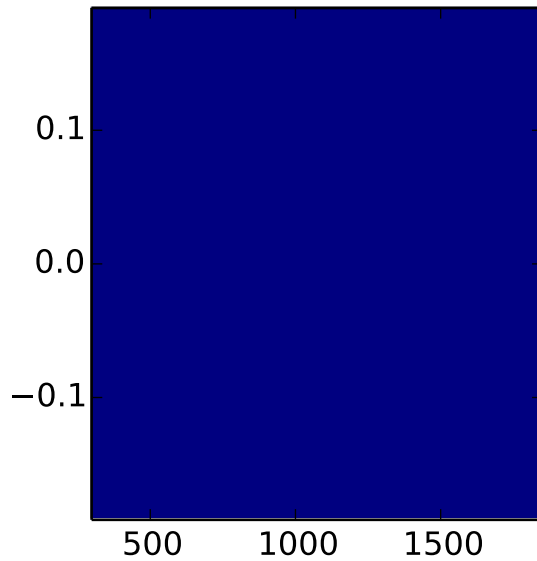
Curvature: -400 : 400



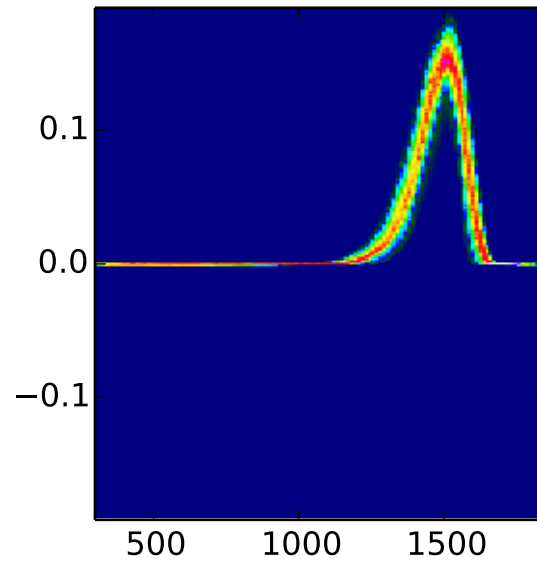
Curvature: 400 : 1200



Curvature: 1200 : 2000

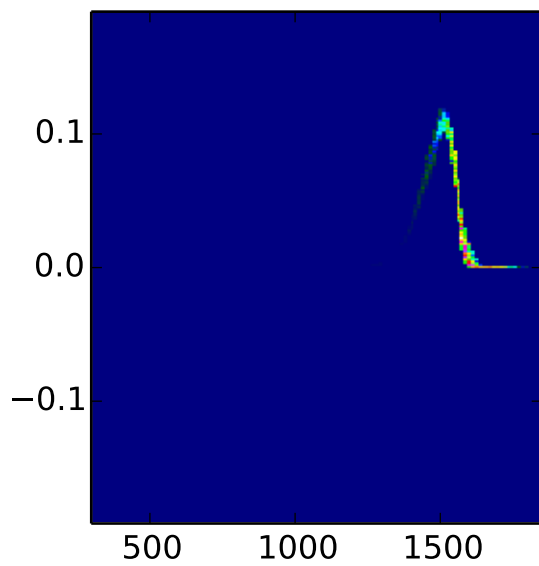


Sum

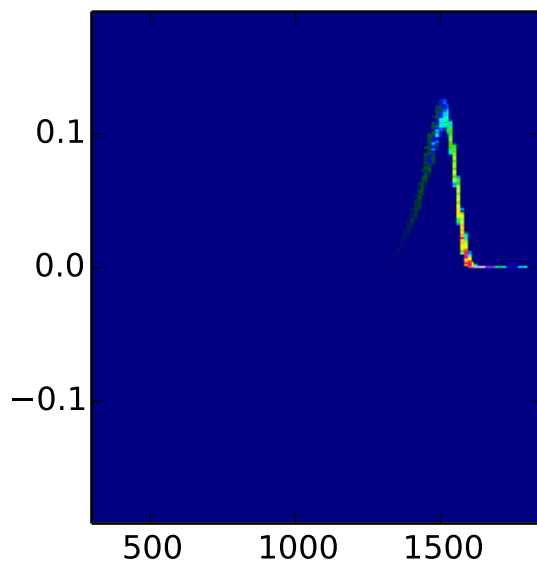


# Edge CH3 $\rightleftharpoons$ C2H3

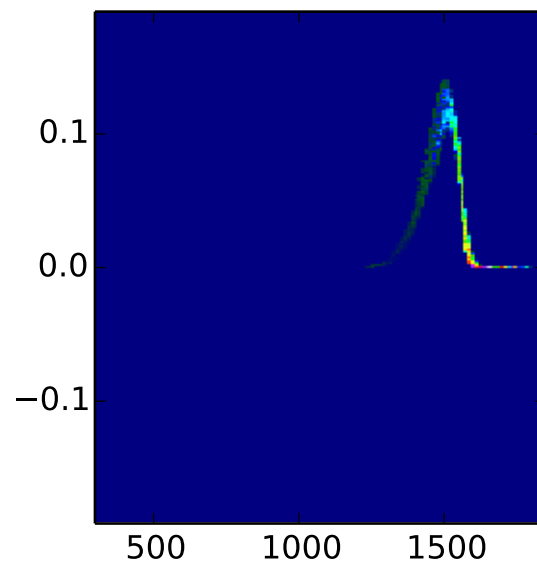
Curvature: -6000 : -5200



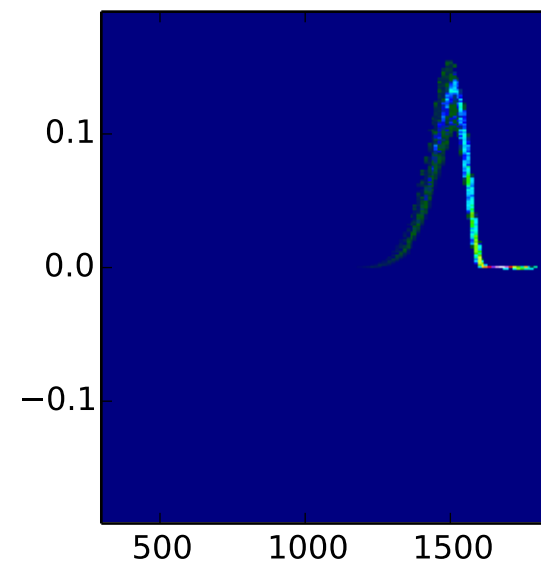
Curvature: -5200 : -4400



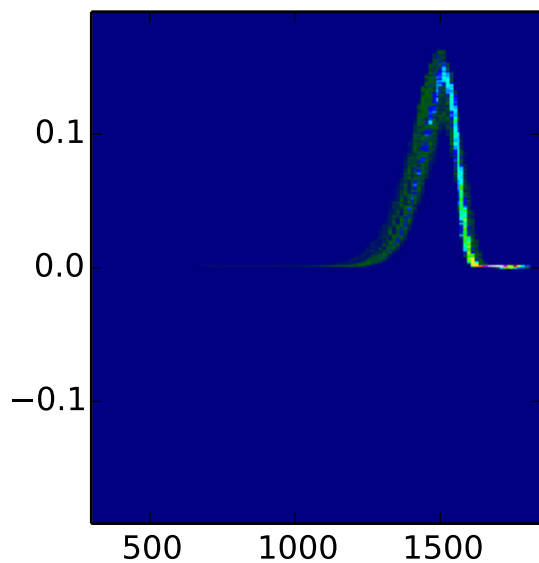
Curvature: -4400 : -3600



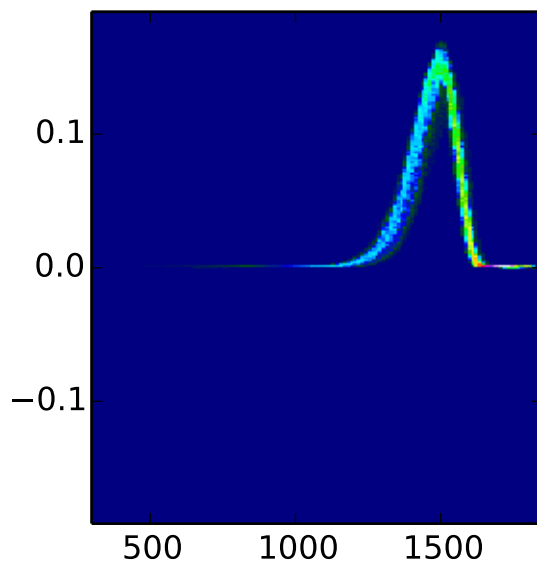
Curvature: -3600 : -2800



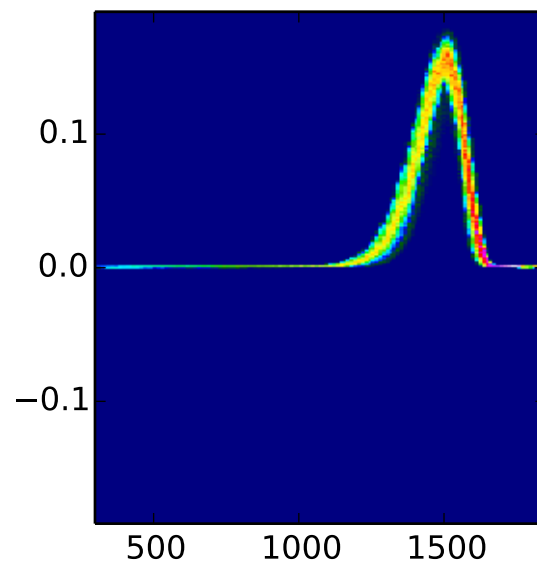
Curvature: -2800 : -2000



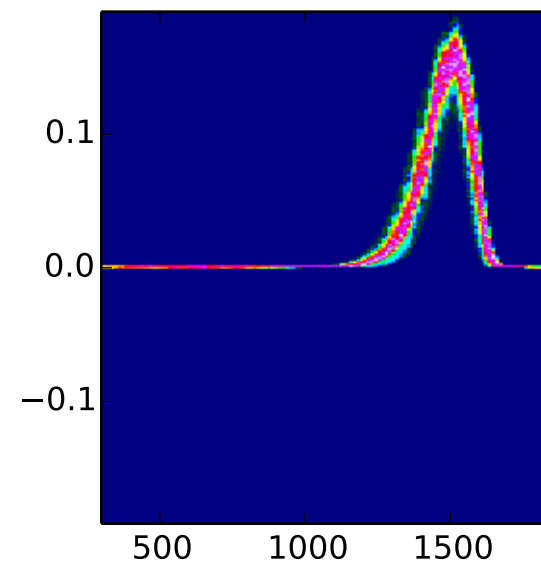
Curvature: -2000 : -1200



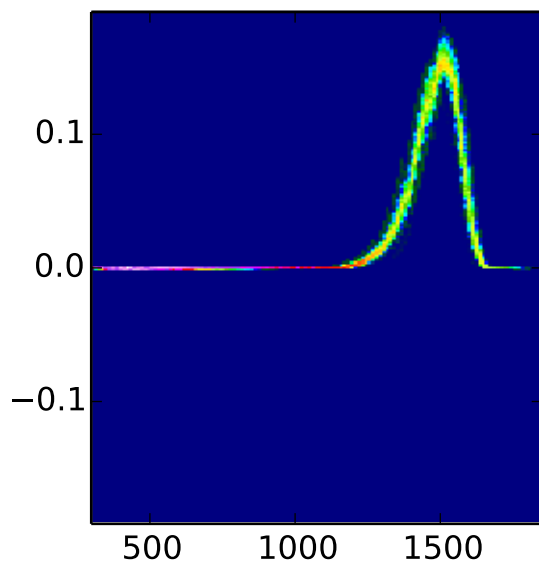
Curvature: -1200 : -400



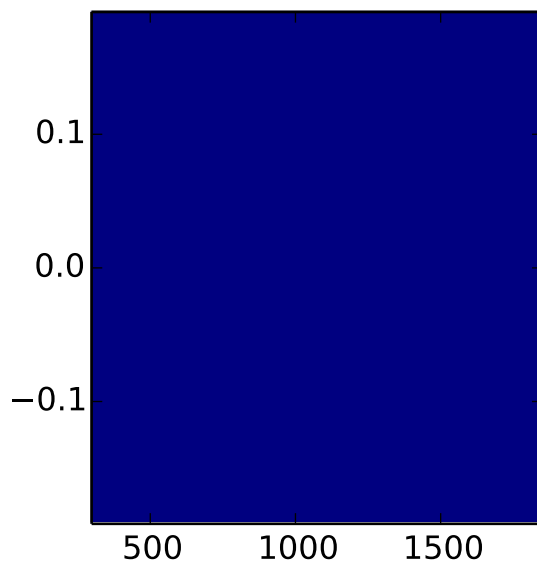
Curvature: -400 : 400



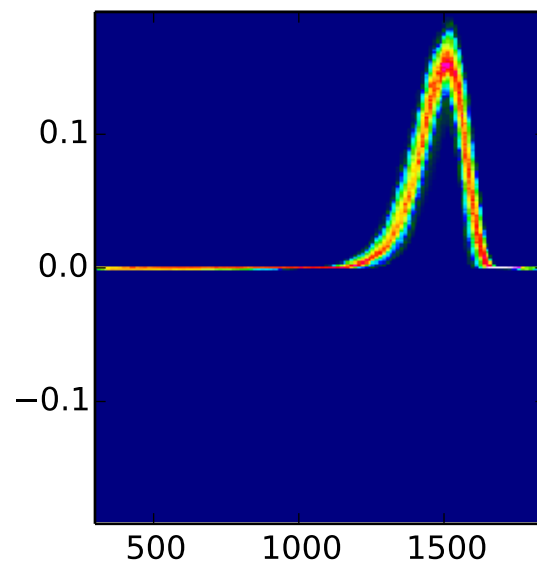
Curvature: 400 : 1200



Curvature: 1200 : 2000

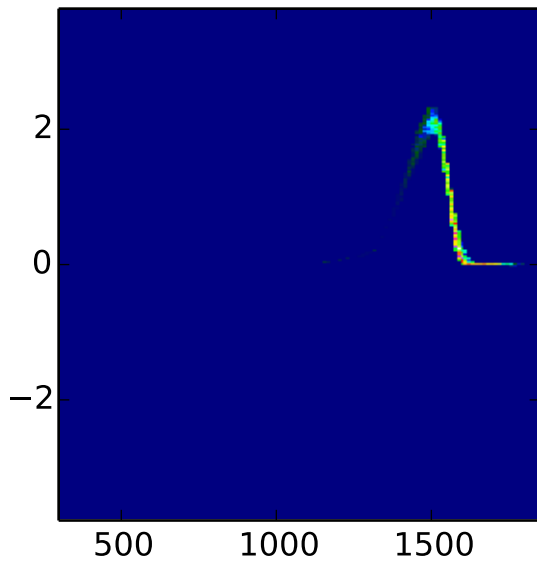


Sum

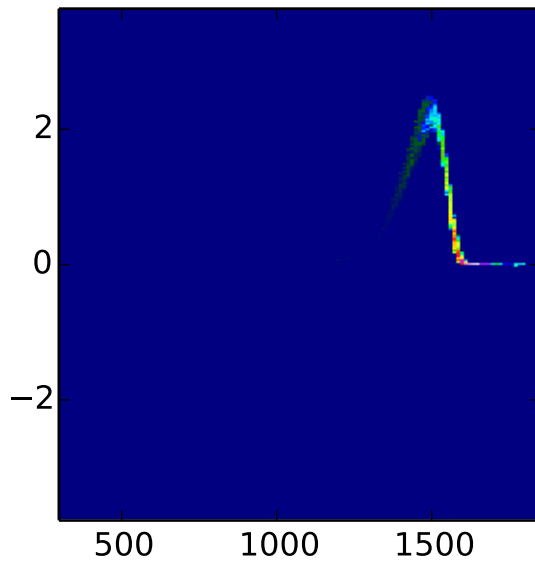


# Edge CH $\rightleftharpoons$ C2H4

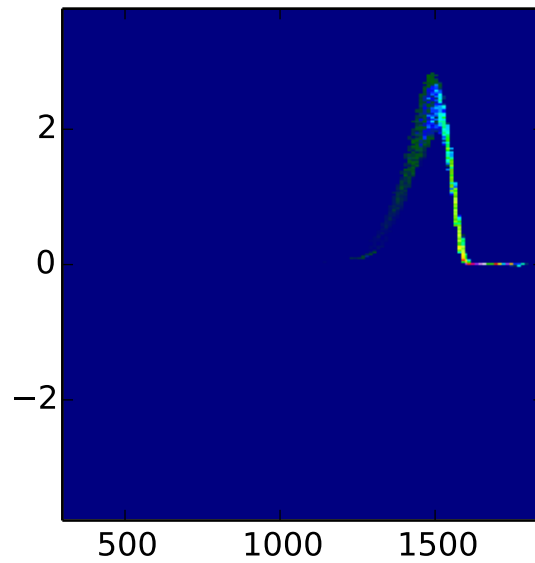
Curvature: -6000 : -5200



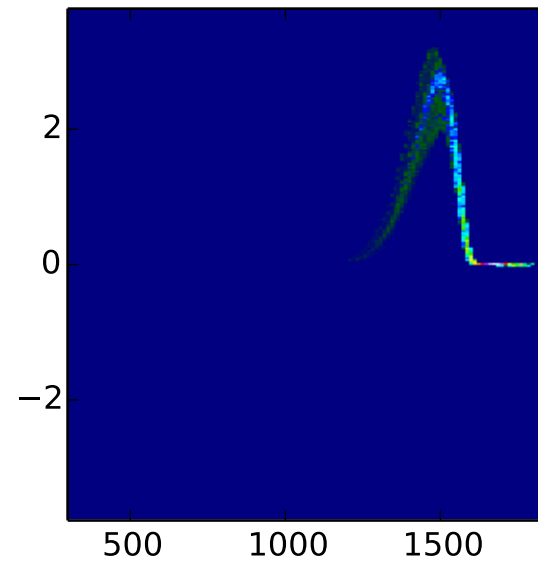
Curvature: -5200 : -4400



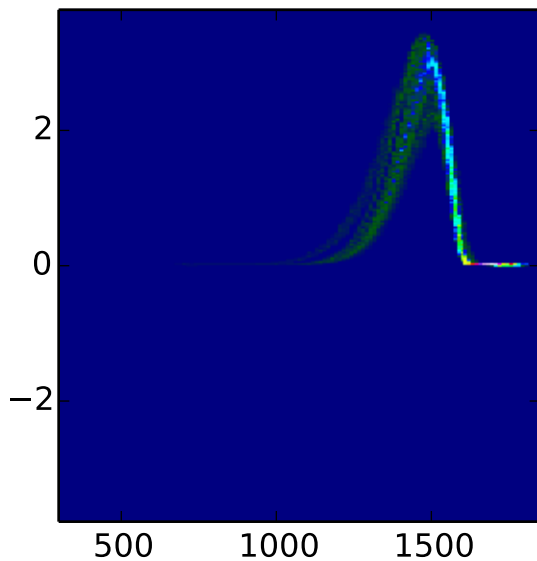
Curvature: -4400 : -3600



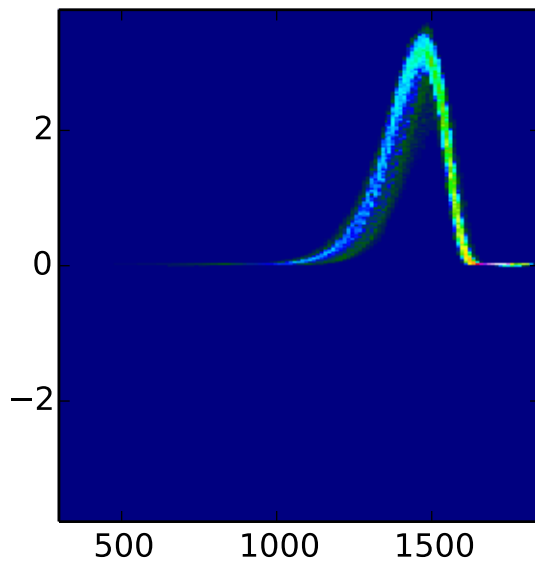
Curvature: -3600 : -2800



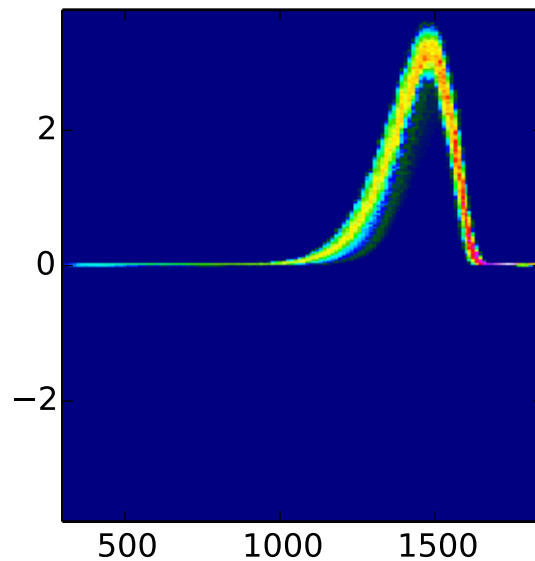
Curvature: -2800 : -2000



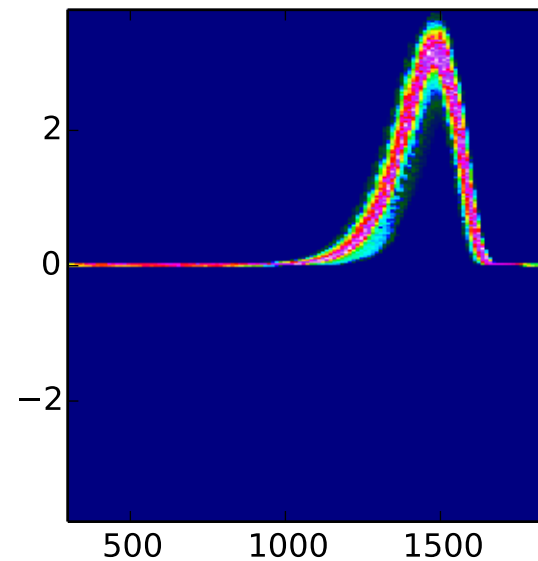
Curvature: -2000 : -1200



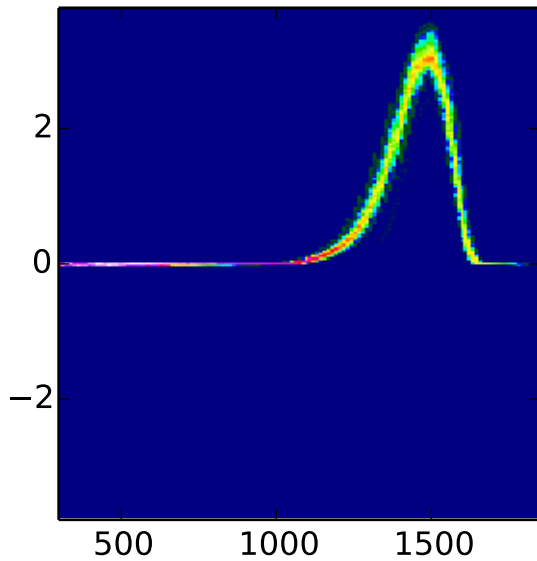
Curvature: -1200 : -400



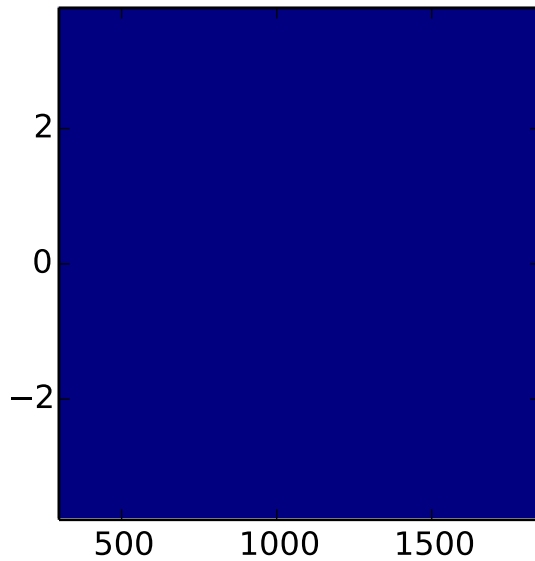
Curvature: -400 : 400



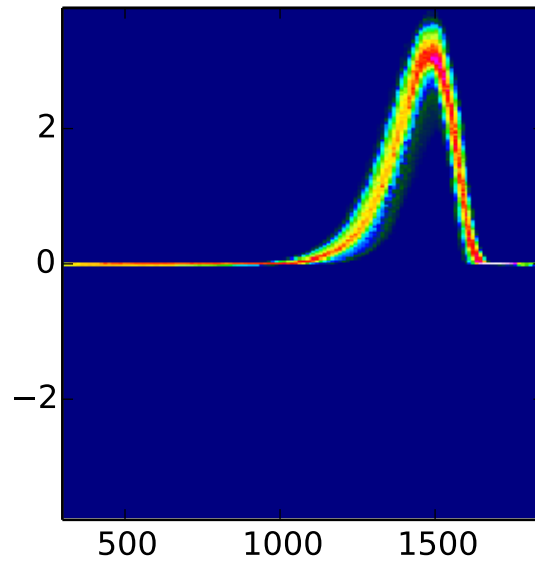
Curvature: 400 : 1200



Curvature: 1200 : 2000

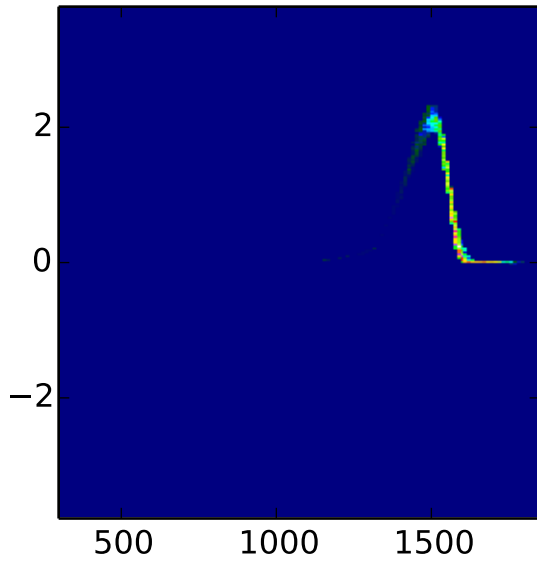


Sum

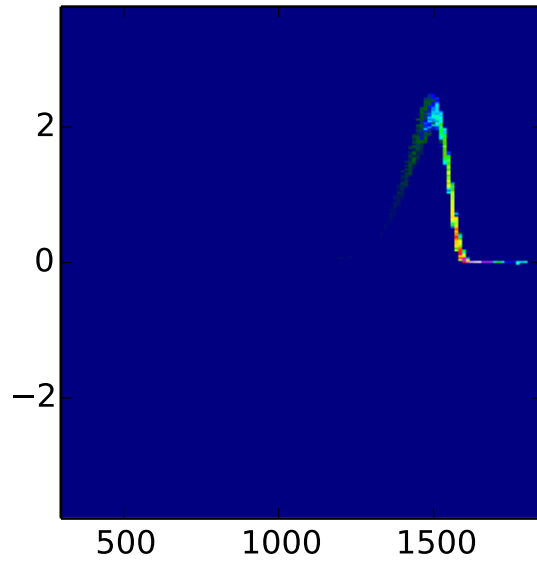


# Edge CH4 $\rightleftharpoons$ C2H4

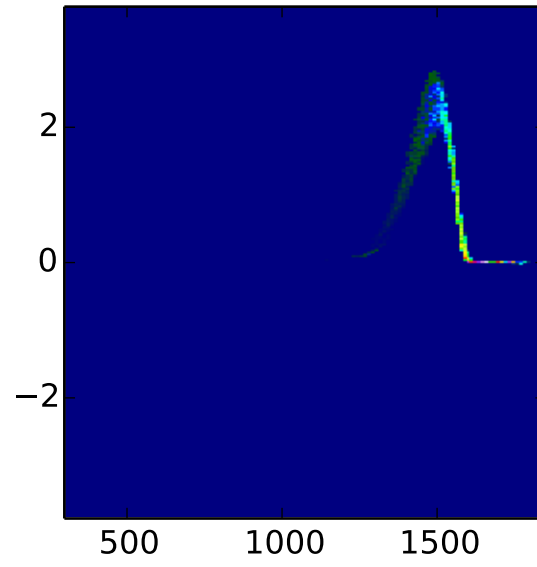
Curvature: -6000 : -5200



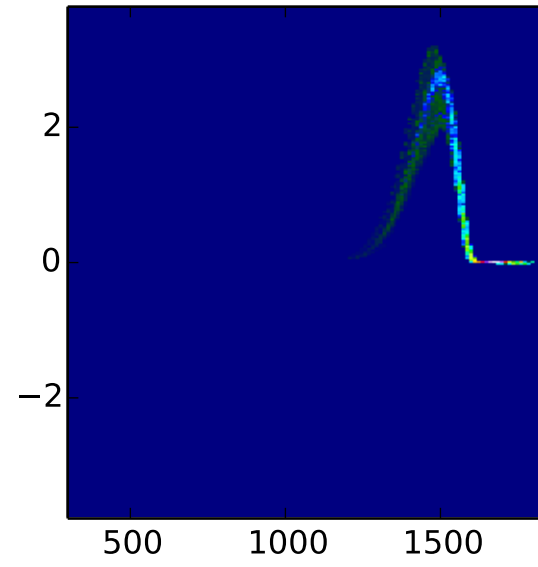
Curvature: -5200 : -4400



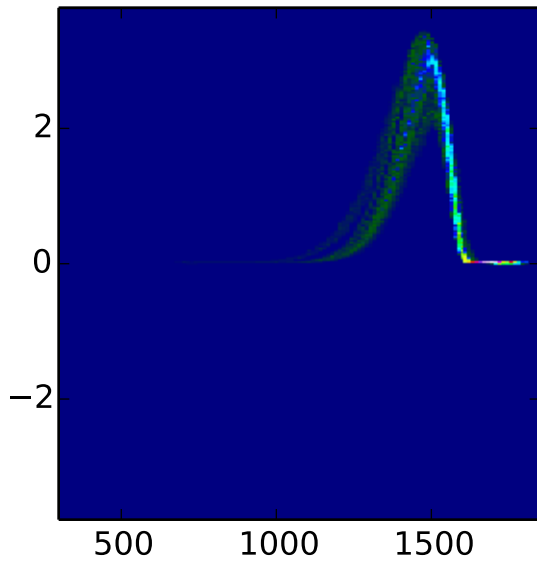
Curvature: -4400 : -3600



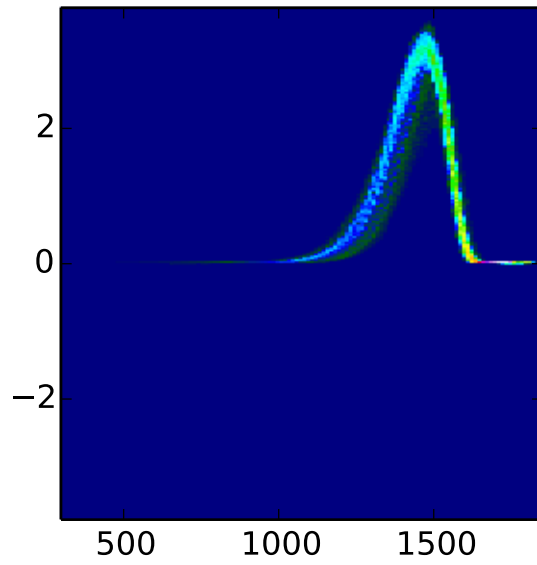
Curvature: -3600 : -2800



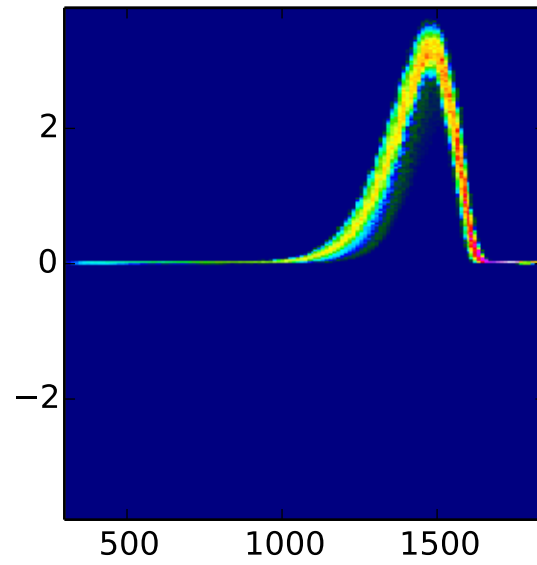
Curvature: -2800 : -2000



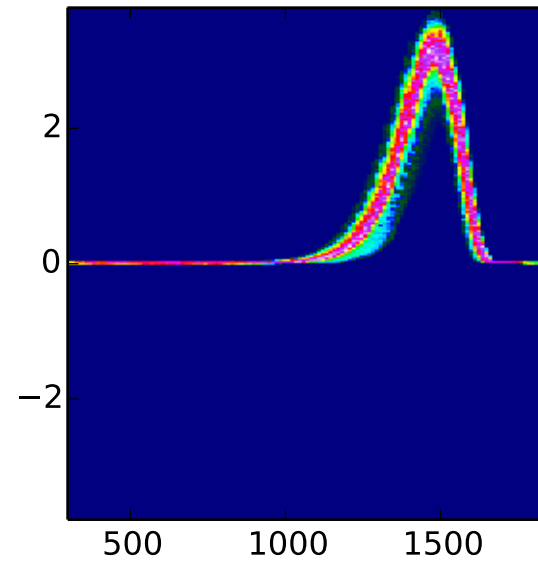
Curvature: -2000 : -1200



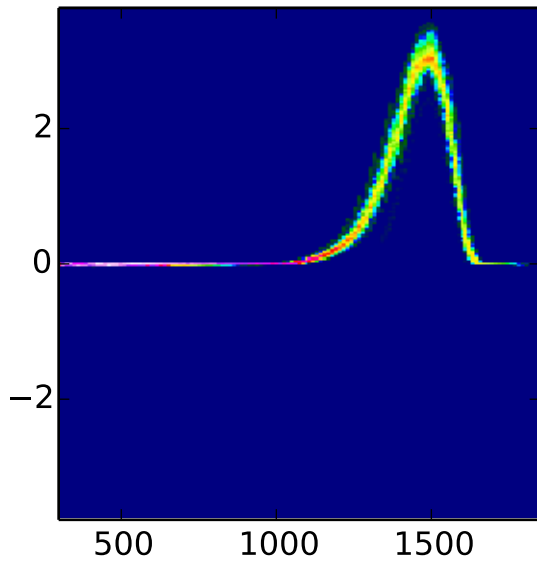
Curvature: -1200 : -400



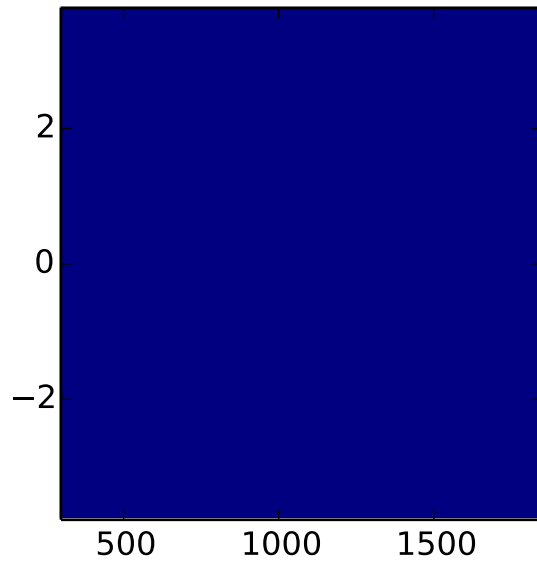
Curvature: -400 : 400



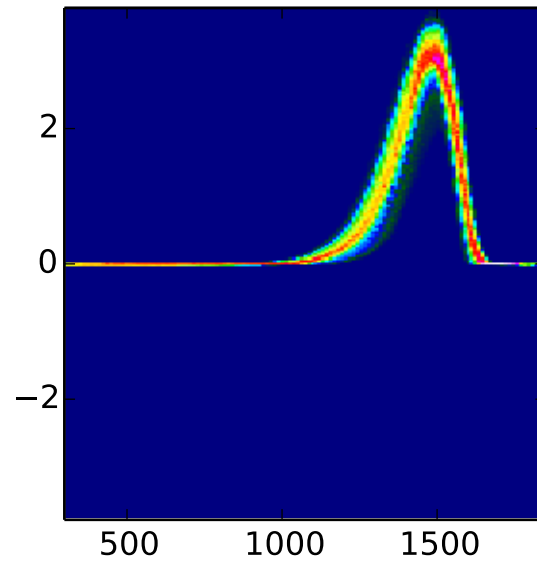
Curvature: 400 : 1200



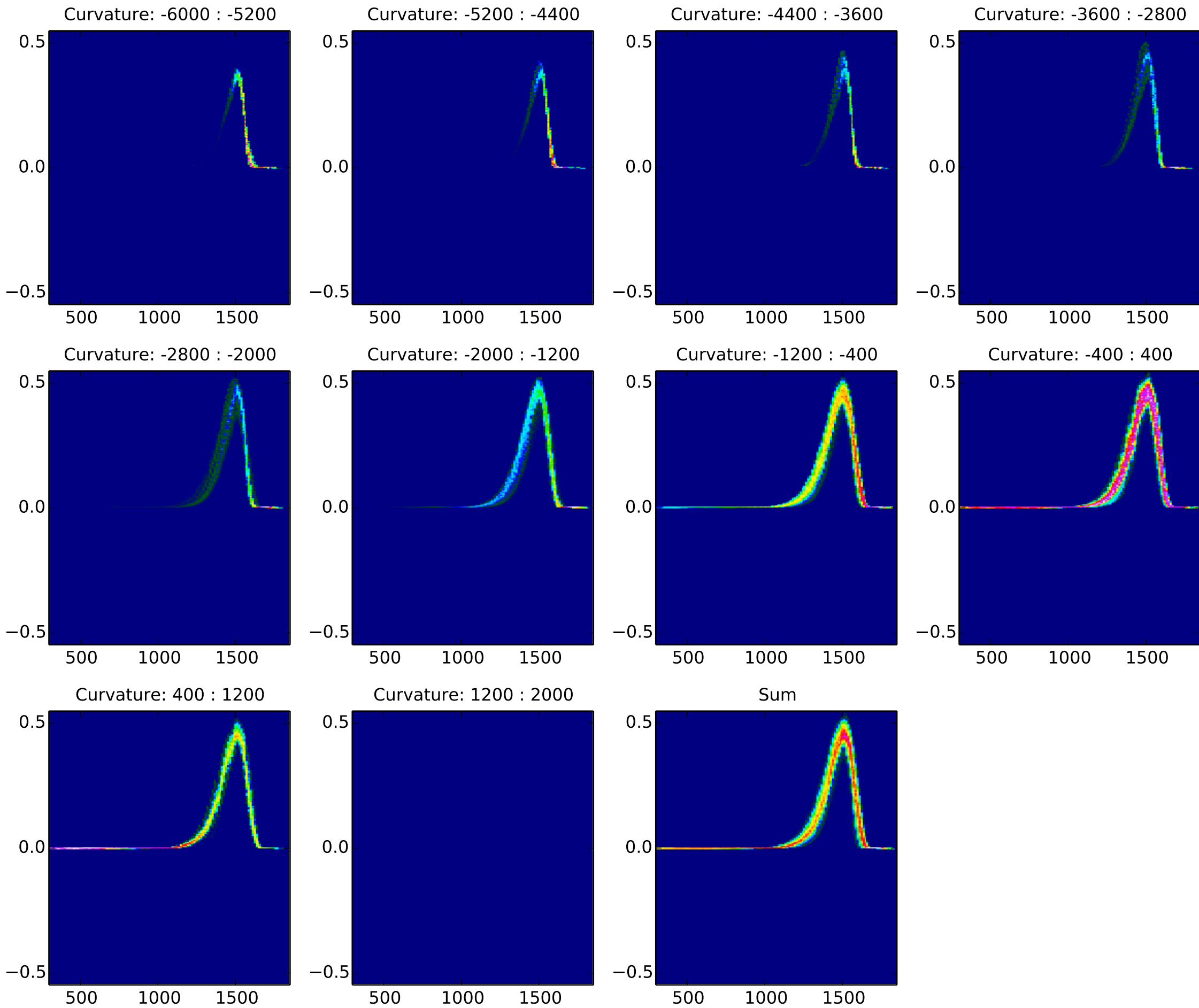
Curvature: 1200 : 2000



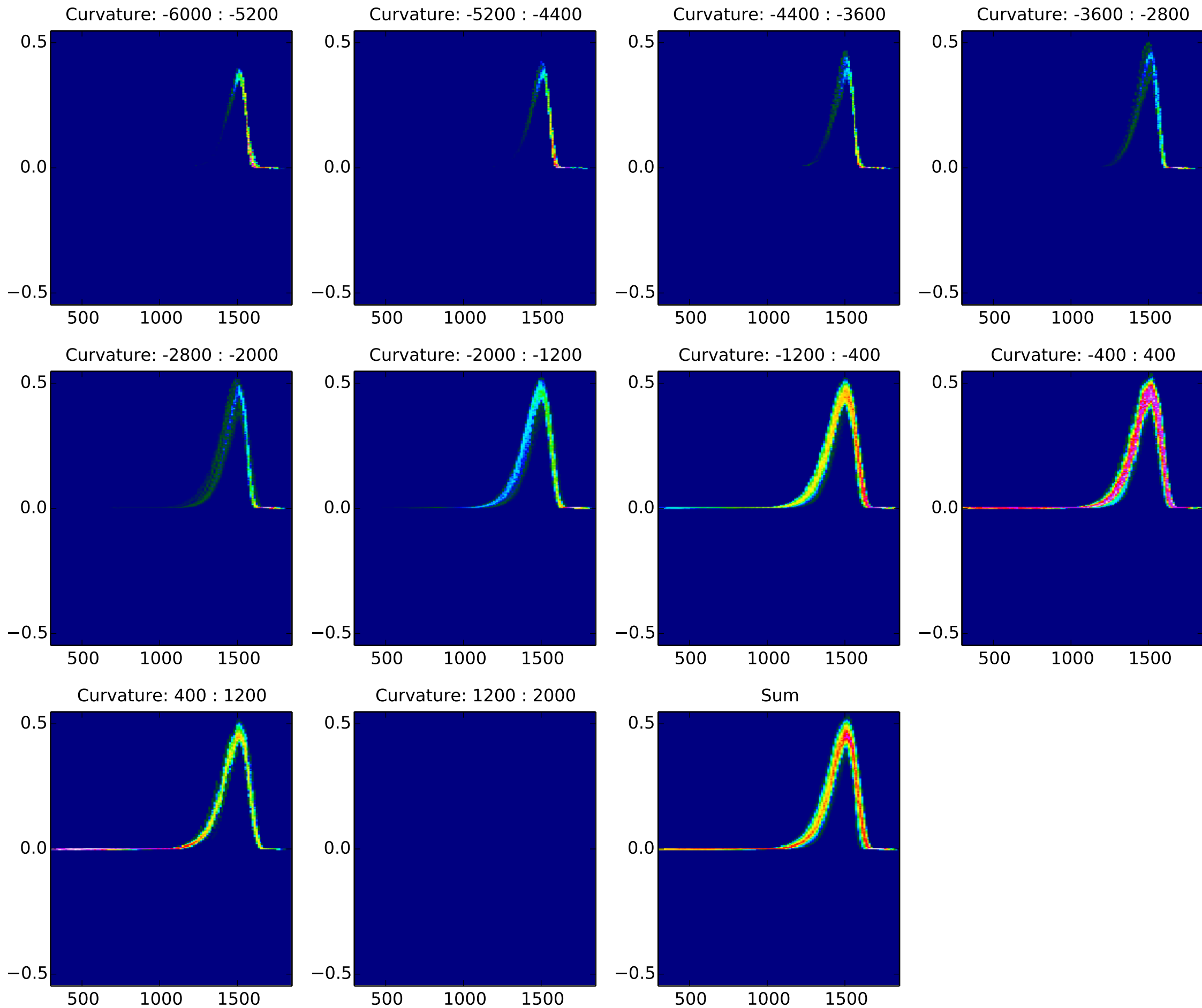
Sum



# Edge CH $\rightleftharpoons$ CH<sub>2</sub>CO

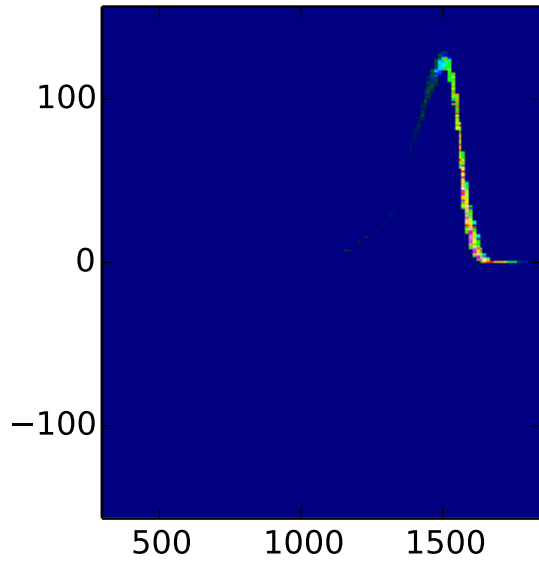


# Edge CH<sub>2</sub>O $\rightleftharpoons$ CH<sub>2</sub>CO

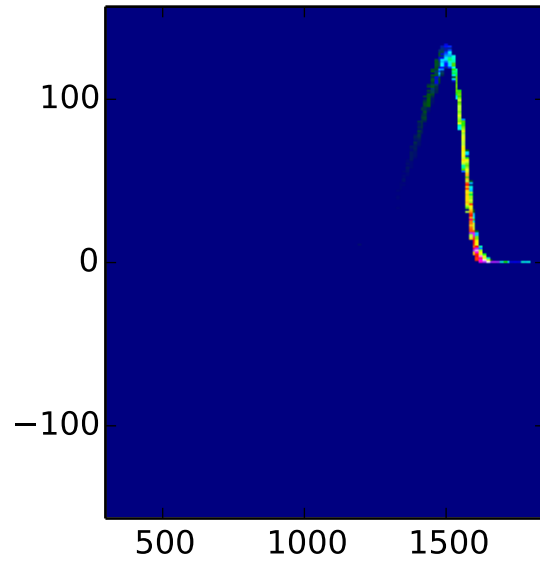


# Edge CH2 $\rightleftharpoons$ CO

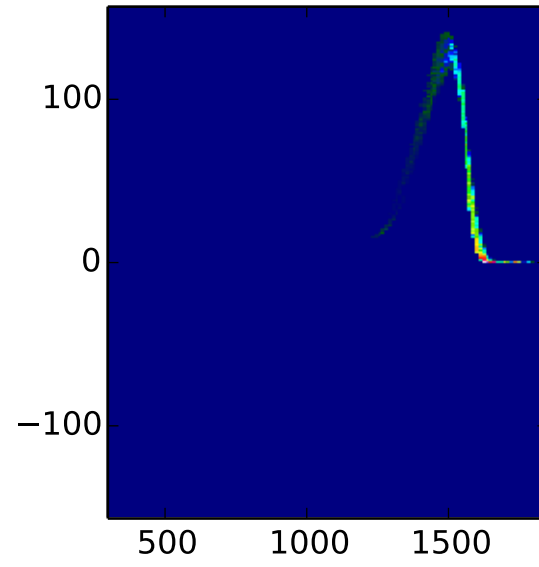
Curvature: -6000 : -5200



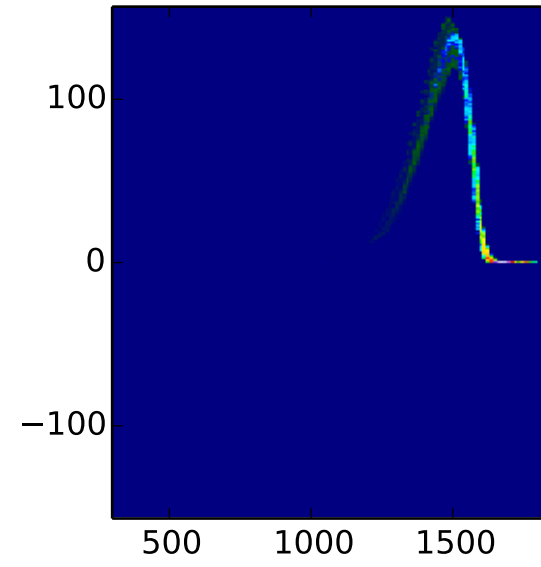
Curvature: -5200 : -4400



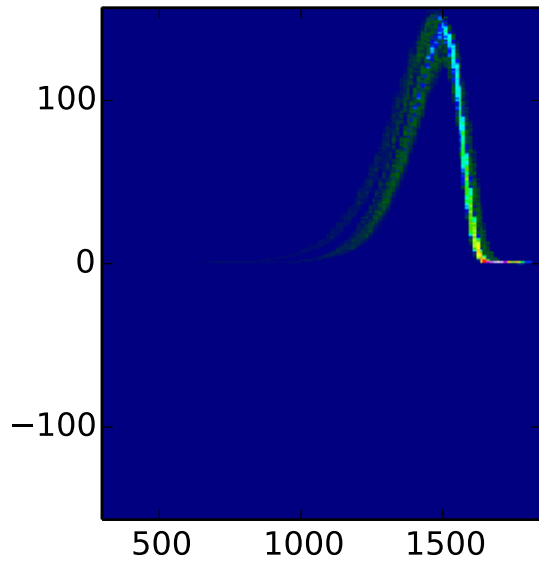
Curvature: -4400 : -3600



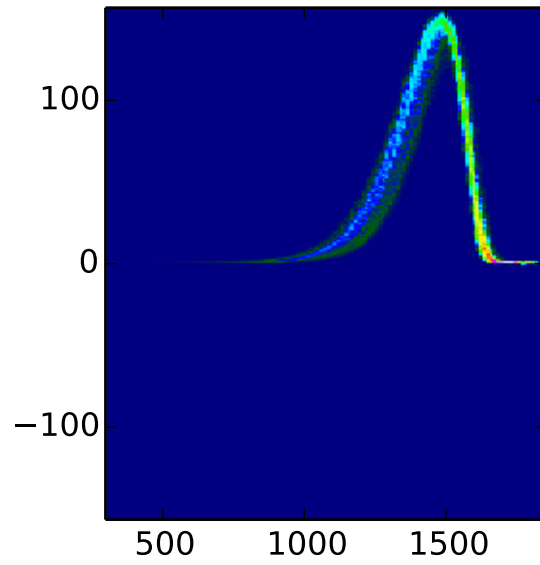
Curvature: -3600 : -2800



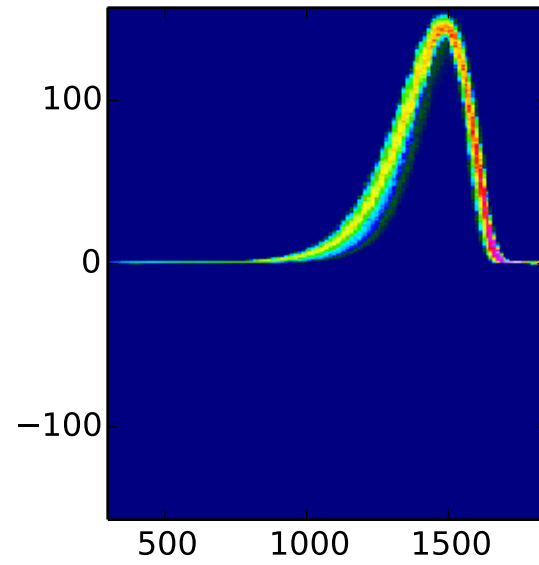
Curvature: -2800 : -2000



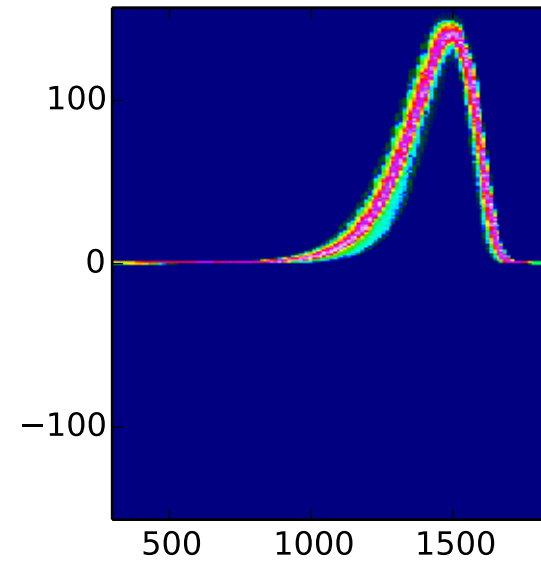
Curvature: -2000 : -1200



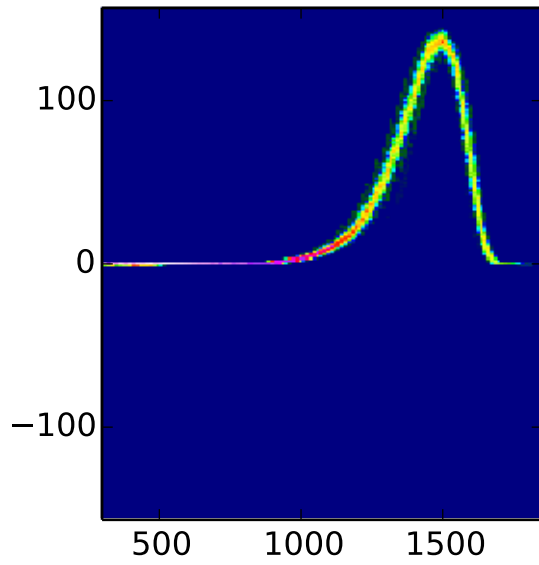
Curvature: -1200 : -400



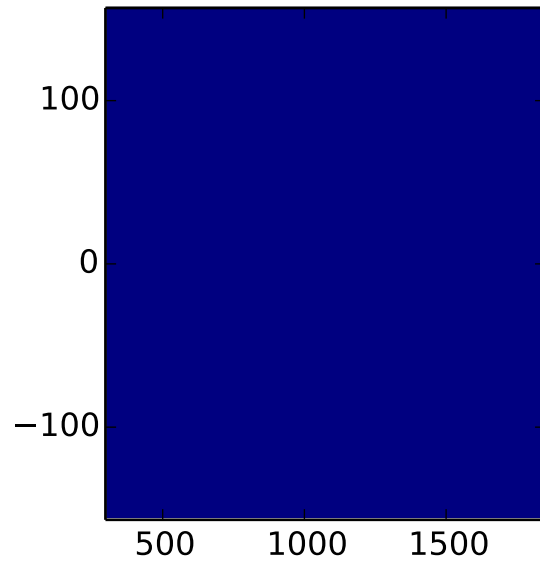
Curvature: -400 : 400



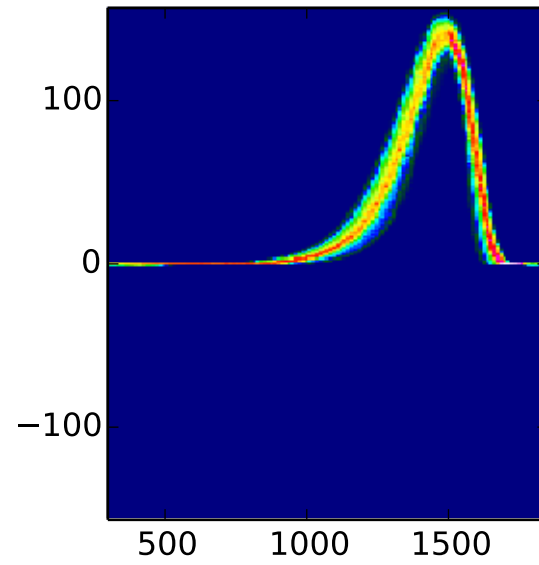
Curvature: 400 : 1200



Curvature: 1200 : 2000



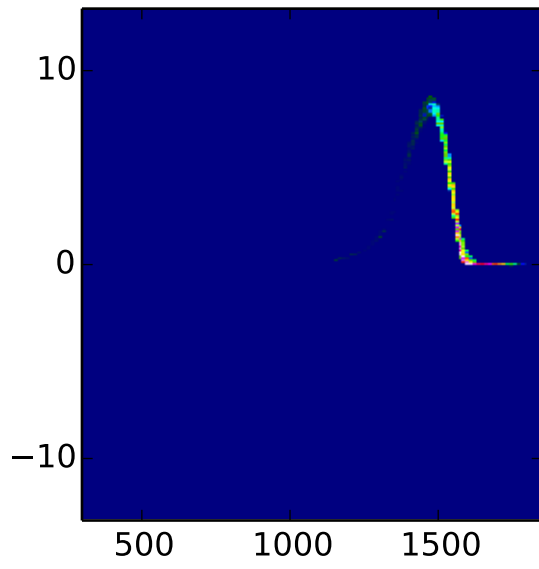
Sum



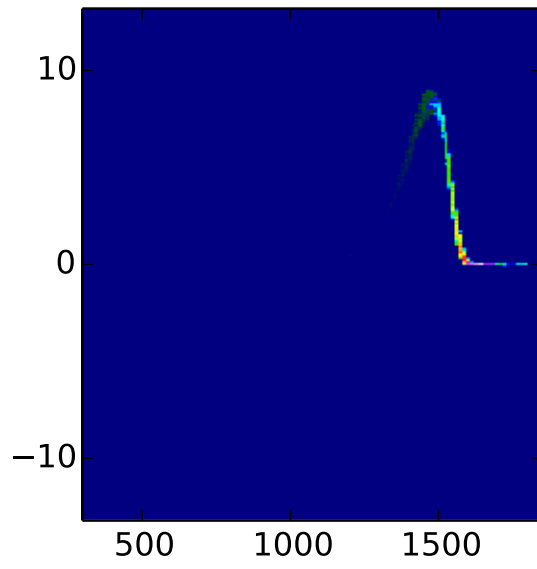


# Edge CH2 $\rightleftharpoons$ C2H4

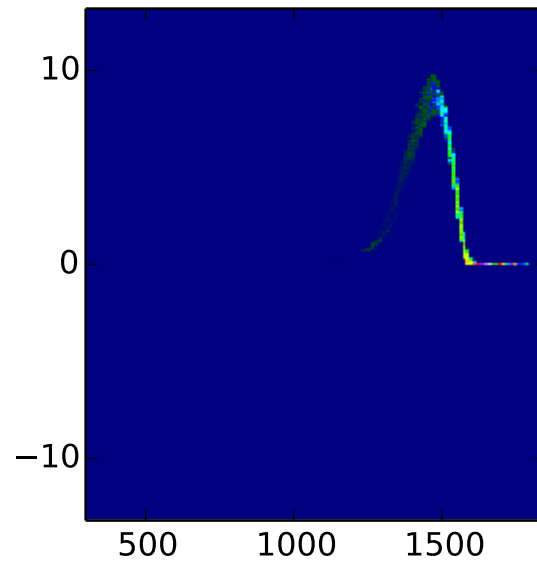
Curvature: -6000 : -5200



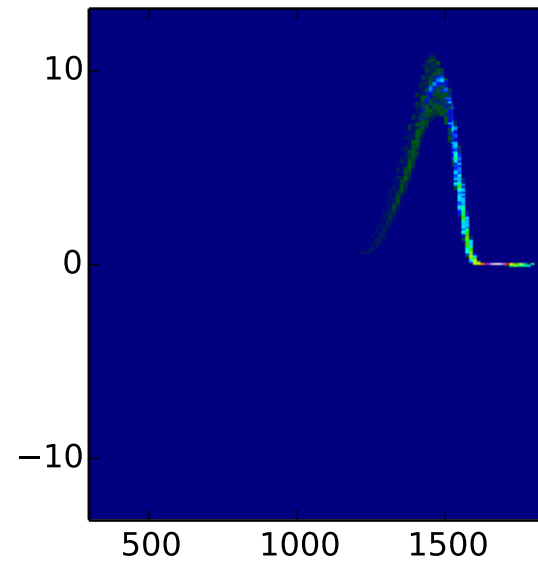
Curvature: -5200 : -4400



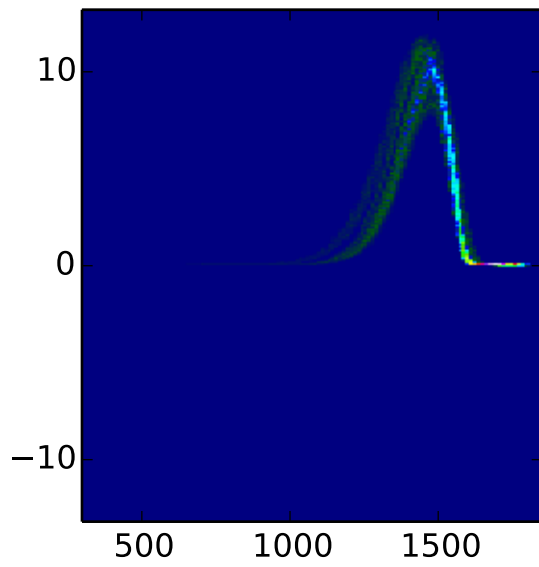
Curvature: -4400 : -3600



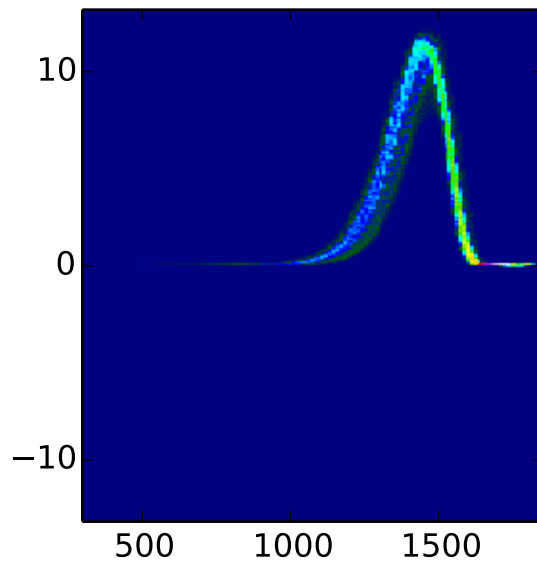
Curvature: -3600 : -2800



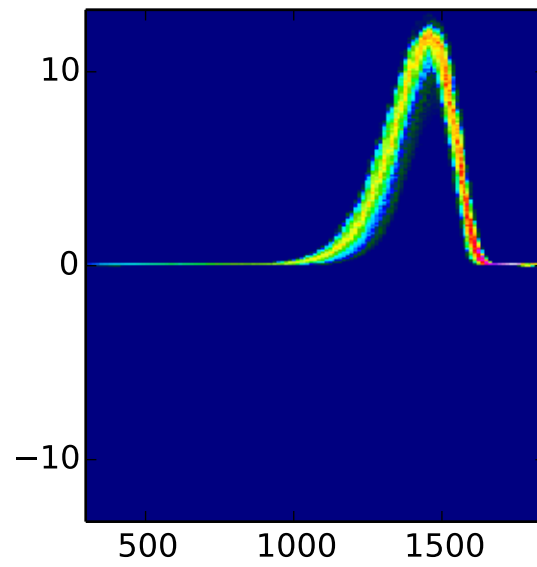
Curvature: -2800 : -2000



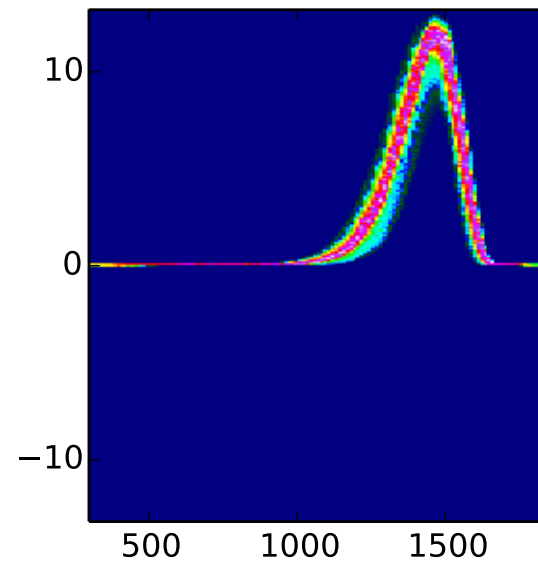
Curvature: -2000 : -1200



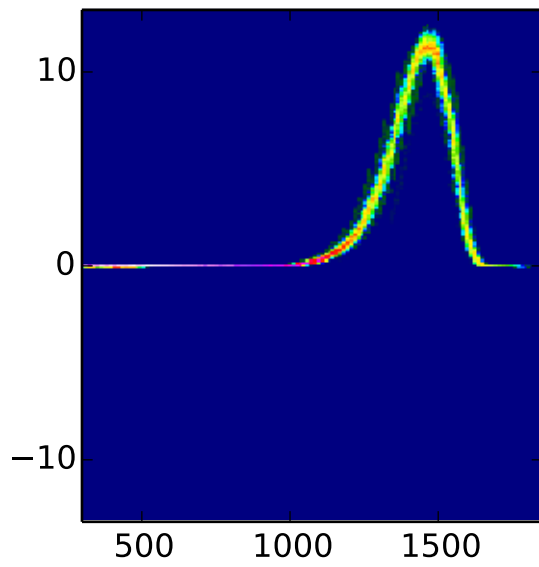
Curvature: -1200 : -400



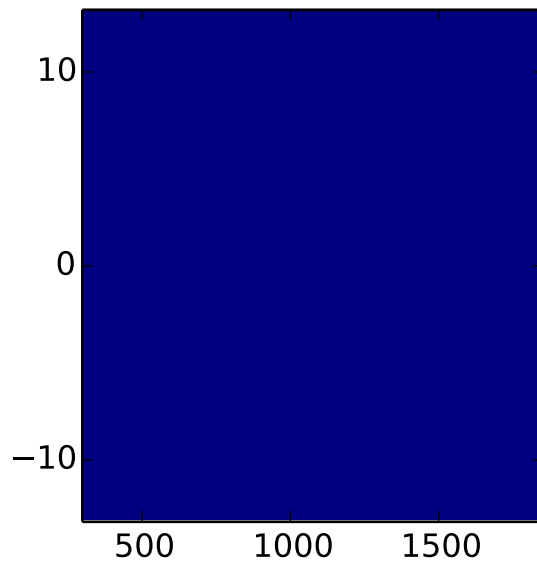
Curvature: -400 : 400



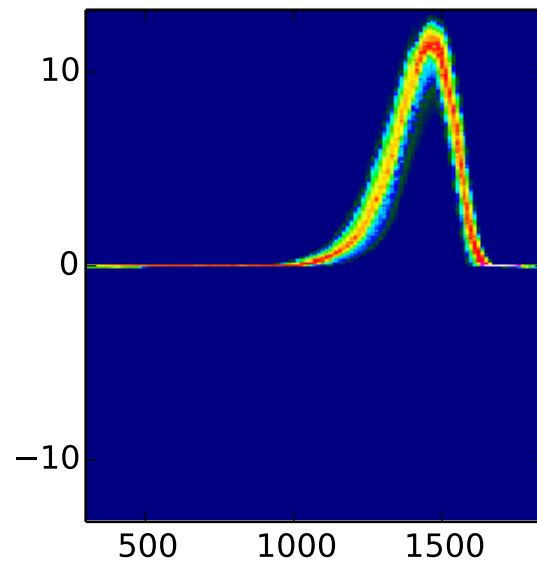
Curvature: 400 : 1200



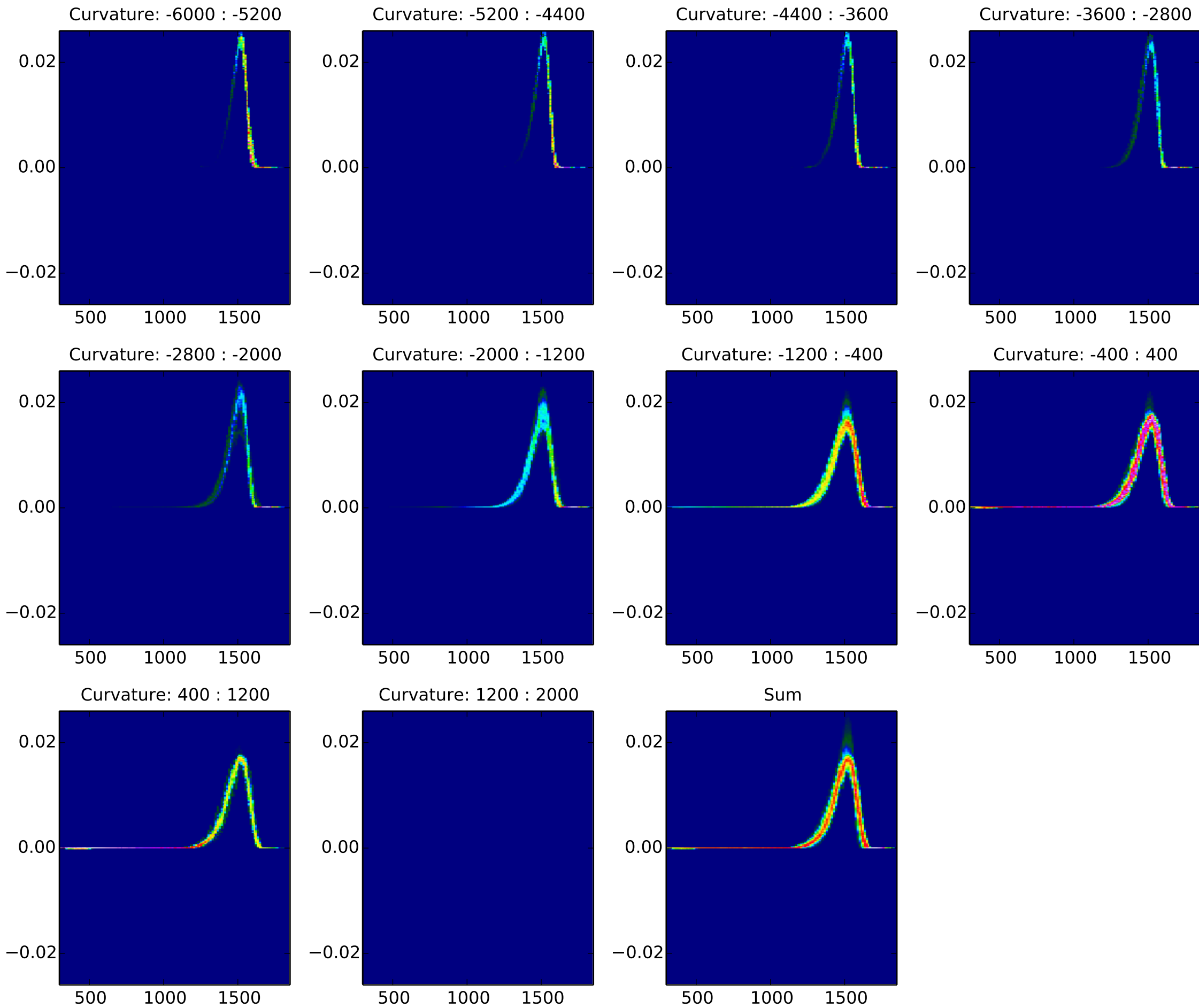
Curvature: 1200 : 2000



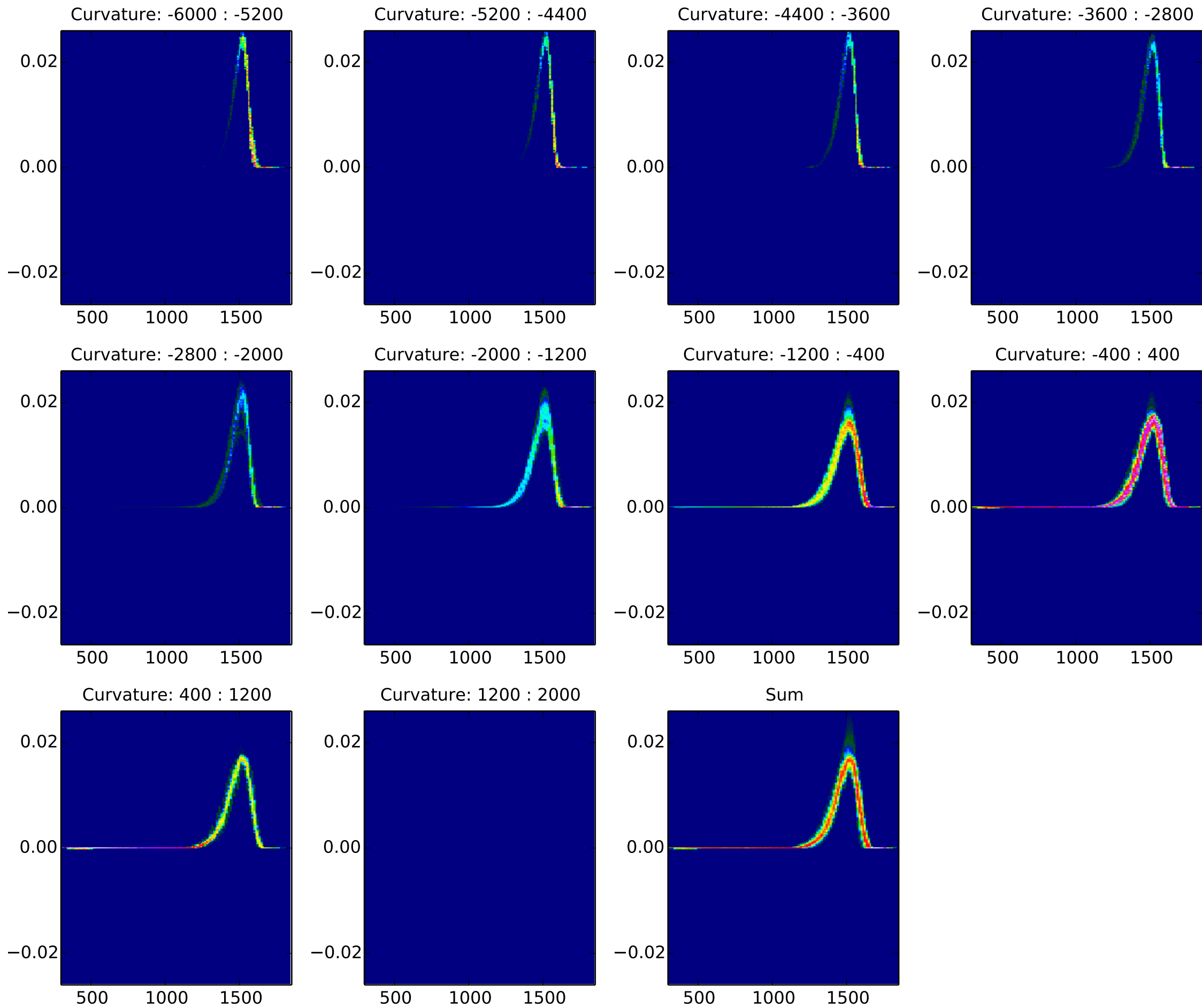
Sum



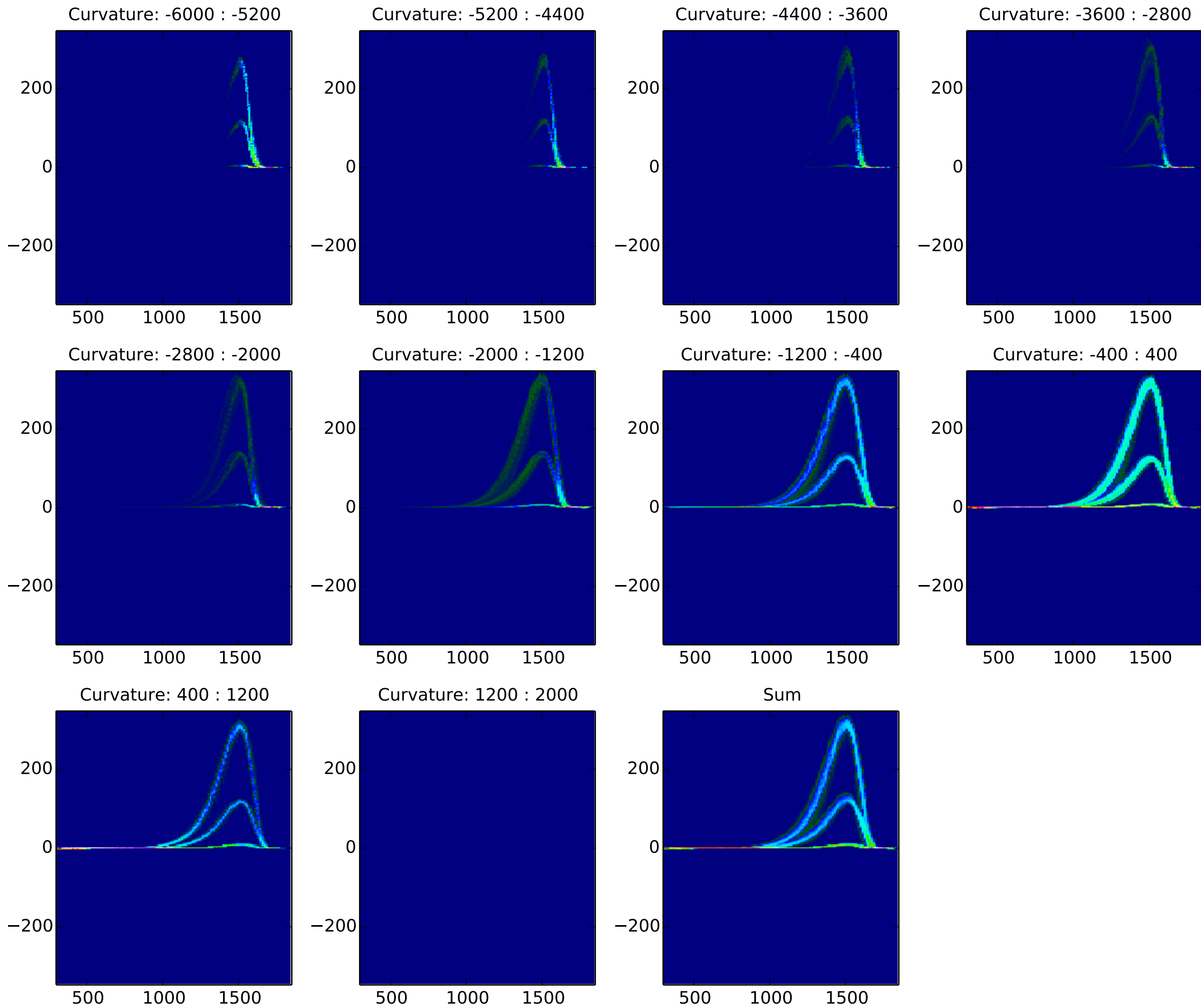
# Edge CH2 $\rightleftharpoons$ C2H3



# Edge HCCO $\rightleftharpoons$ C2H3

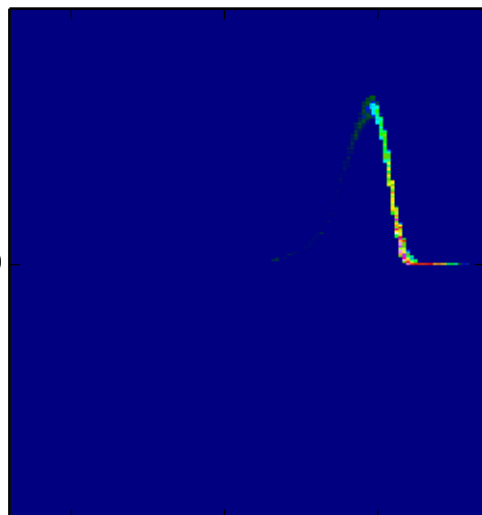


# Edge CH<sub>2</sub>(S) $\rightleftharpoons$ CH<sub>2</sub>

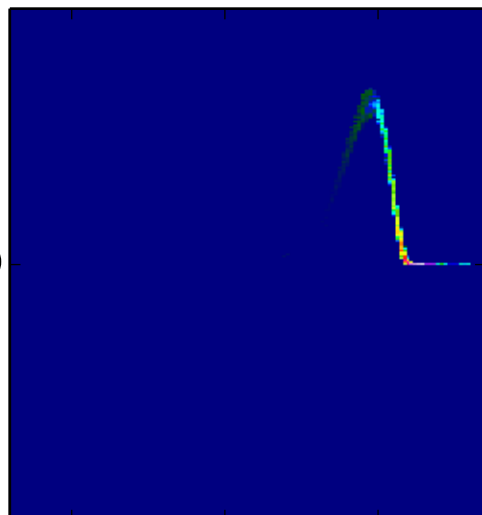


# Edge CH<sub>2</sub>(S) $\rightleftharpoons$ C<sub>2</sub>H<sub>4</sub>

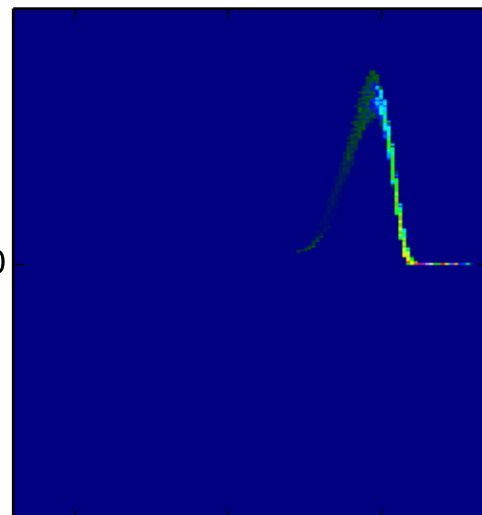
Curvature: -6000 : -5200



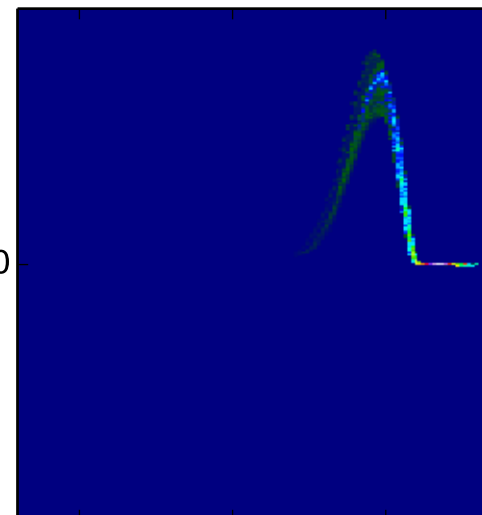
Curvature: -5200 : -4400



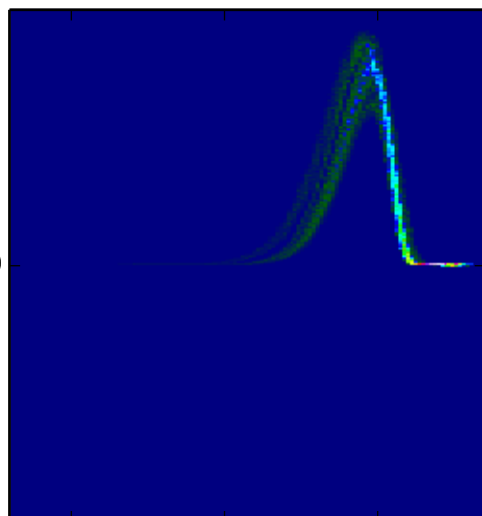
Curvature: -4400 : -3600



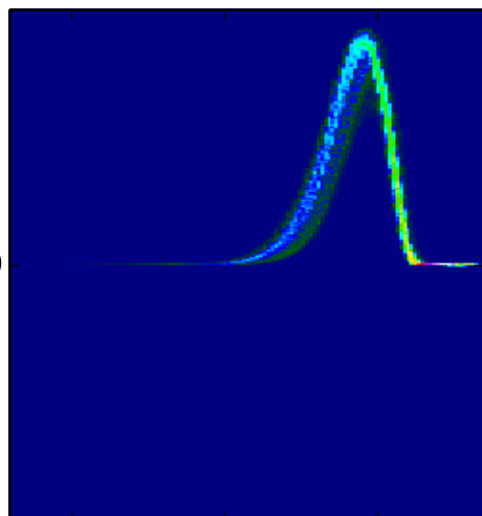
Curvature: -3600 : -2800



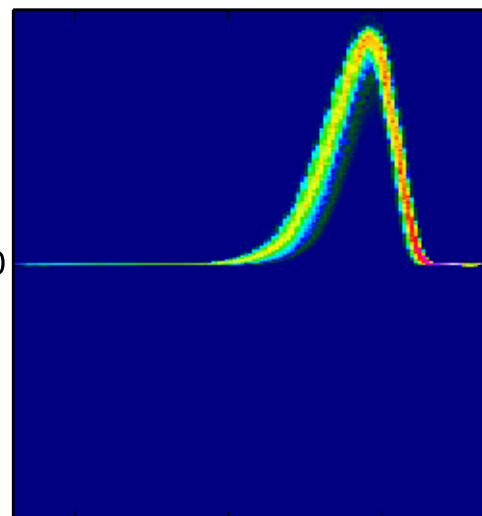
Curvature: -2800 : -2000



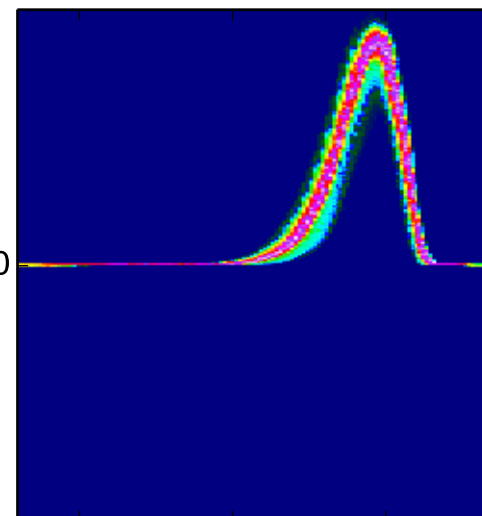
Curvature: -2000 : -1200



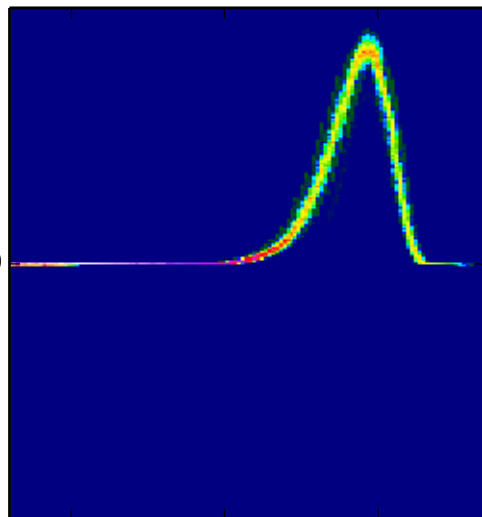
Curvature: -1200 : -400



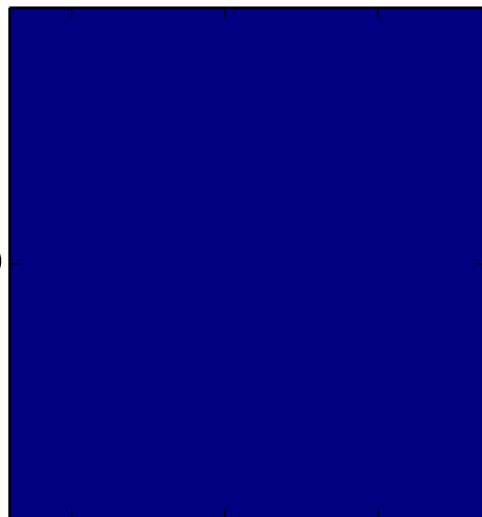
Curvature: -400 : 400



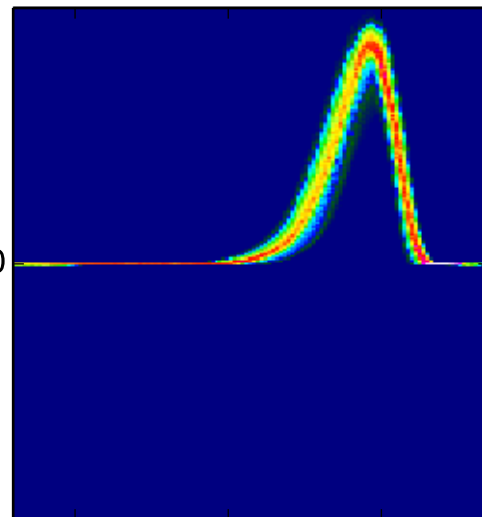
Curvature: 400 : 1200



Curvature: 1200 : 2000

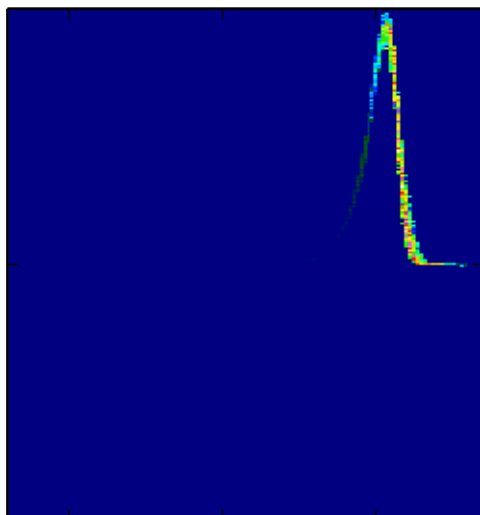


Sum

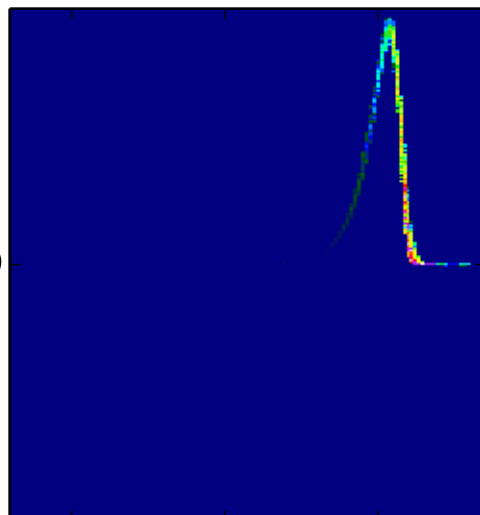


# Edge C2H $\rightleftharpoons$ HCO

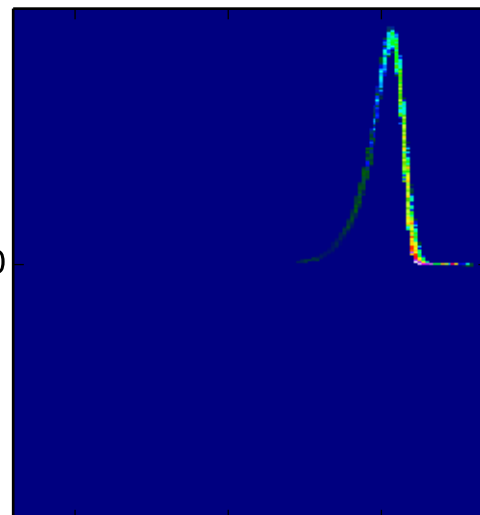
Curvature: -6000 : -5200



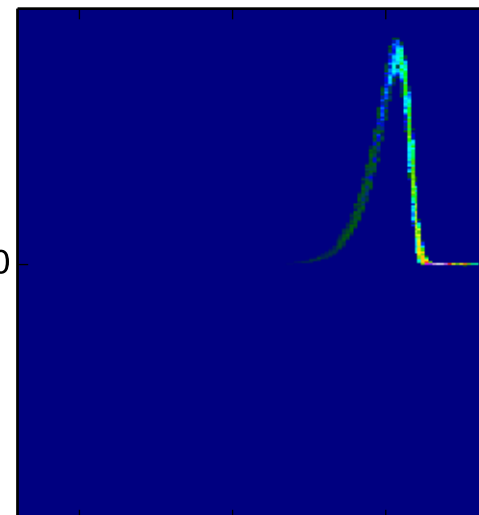
Curvature: -5200 : -4400



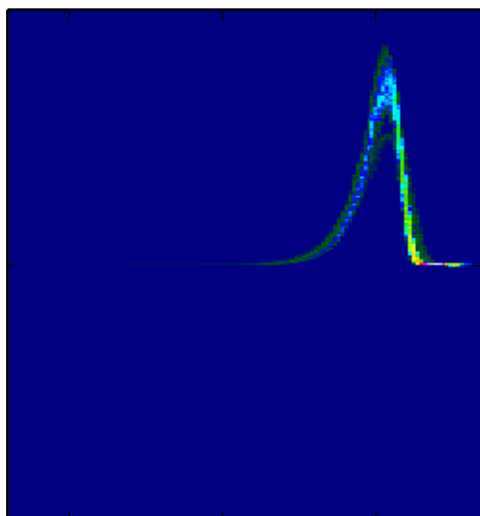
Curvature: -4400 : -3600



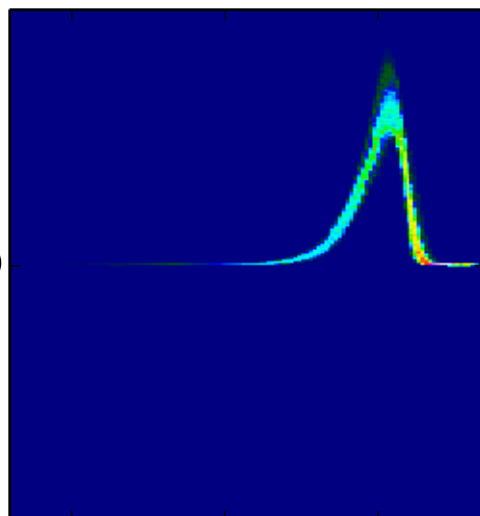
Curvature: -3600 : -2800



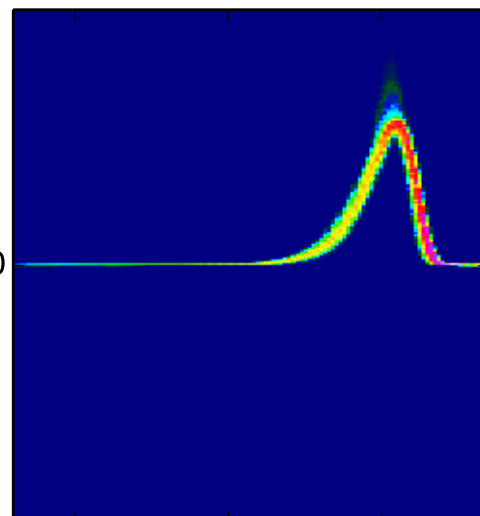
Curvature: -2800 : -2000



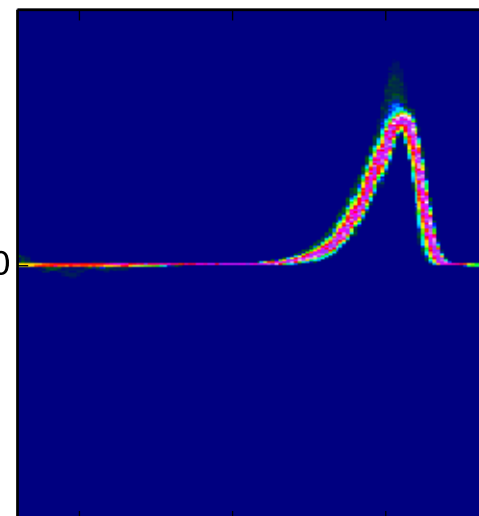
Curvature: -2000 : -1200



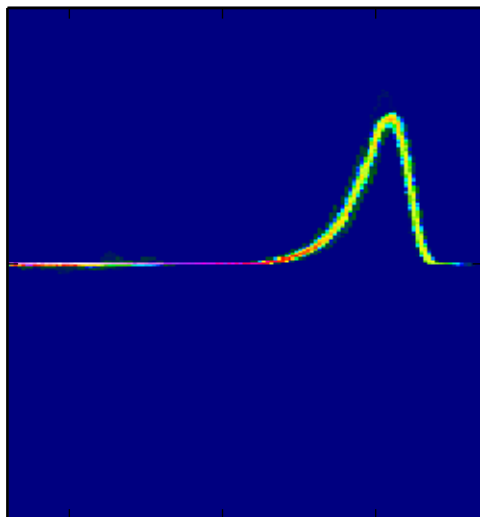
Curvature: -1200 : -400



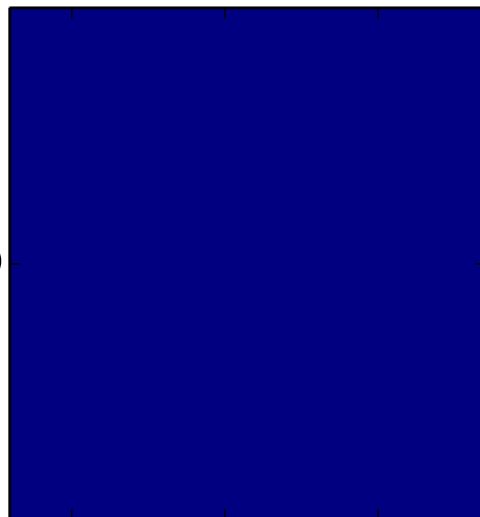
Curvature: -400 : 400



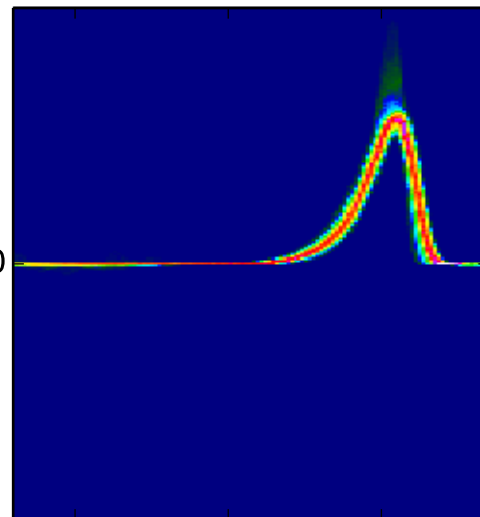
Curvature: 400 : 1200



Curvature: 1200 : 2000

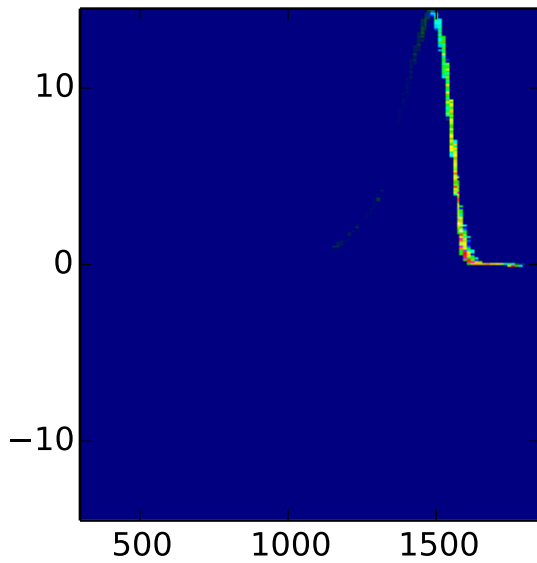


Sum

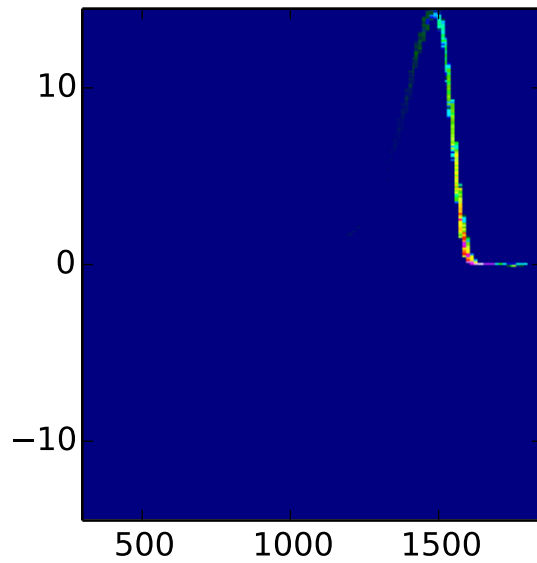


# Edge C2H3 $\rightleftharpoons$ CH2O

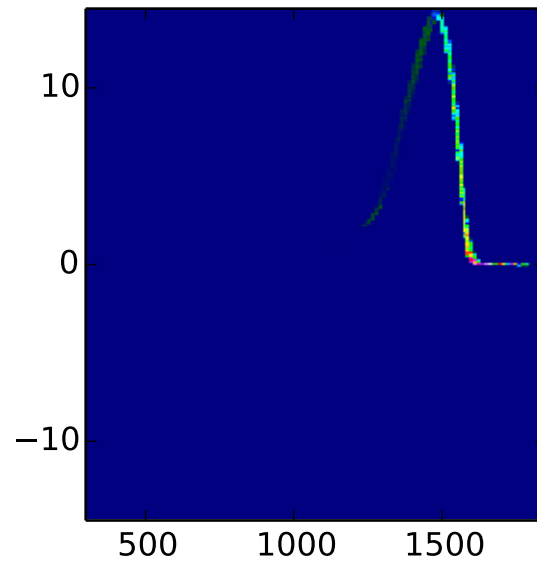
Curvature: -6000 : -5200



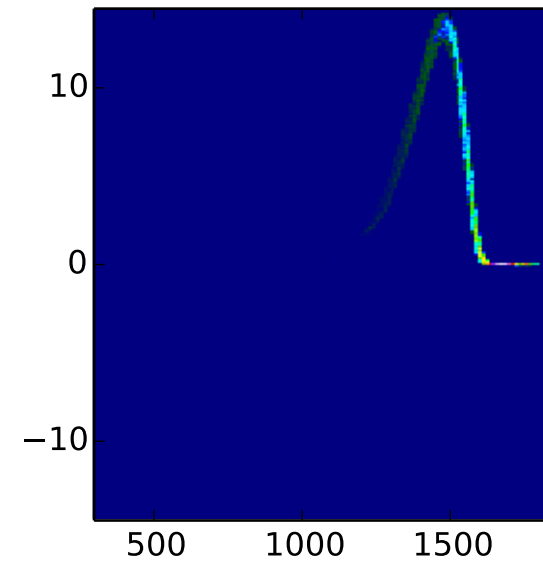
Curvature: -5200 : -4400



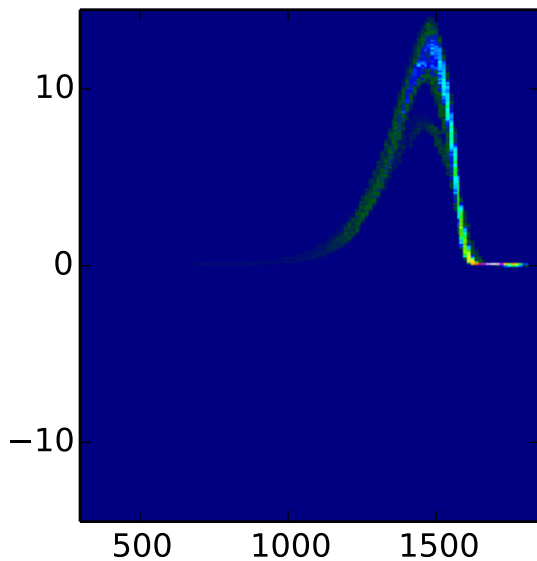
Curvature: -4400 : -3600



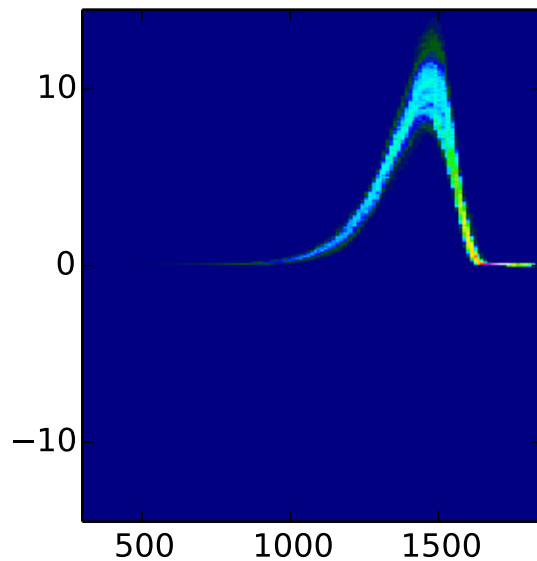
Curvature: -3600 : -2800



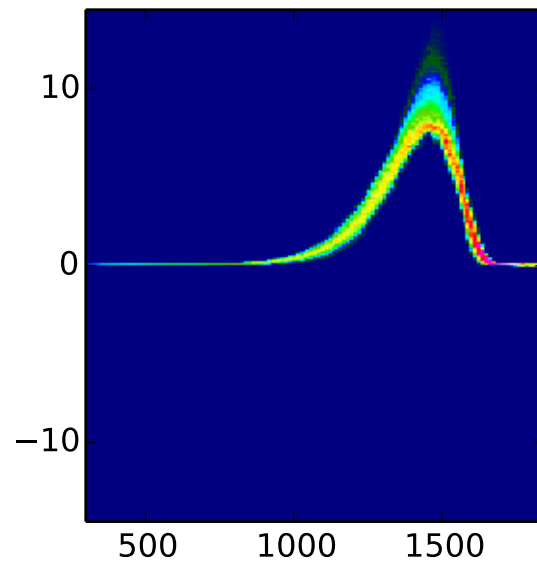
Curvature: -2800 : -2000



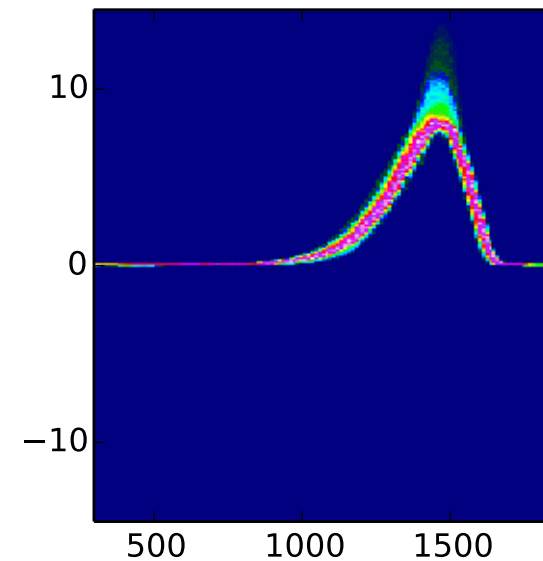
Curvature: -2000 : -1200



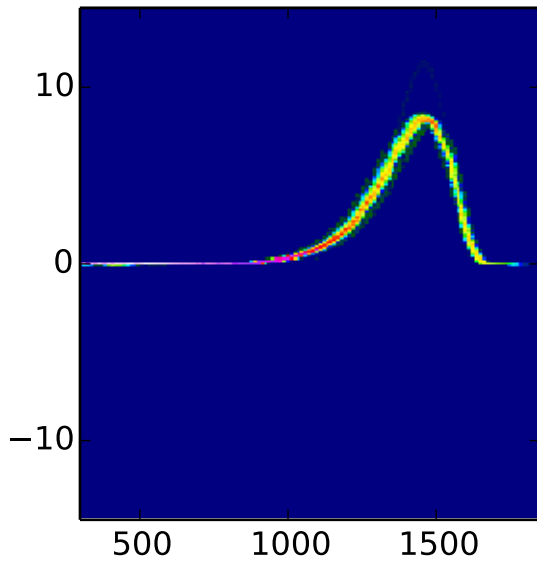
Curvature: -1200 : -400



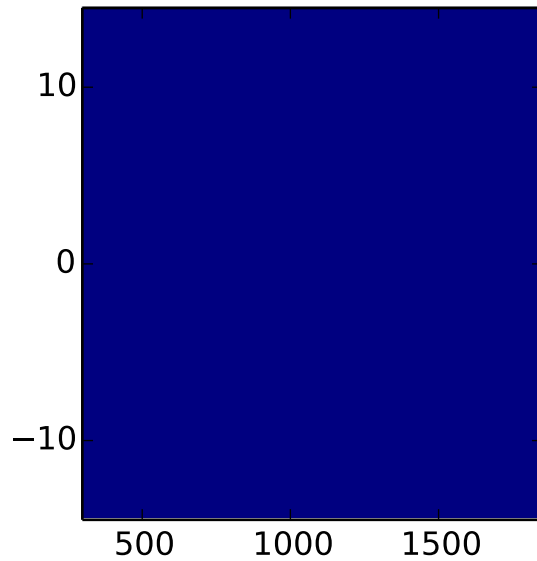
Curvature: -400 : 400



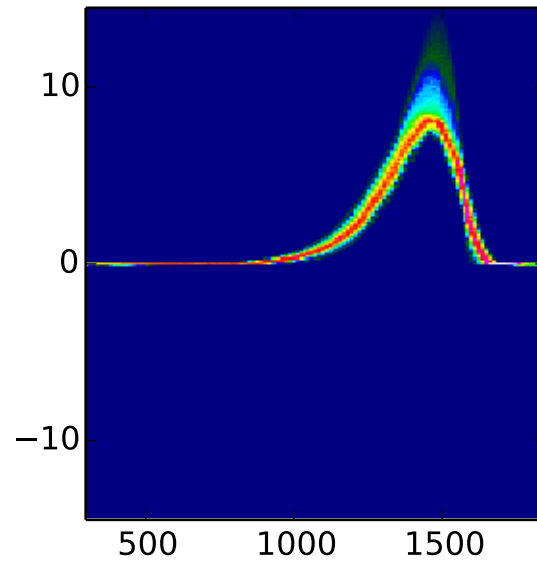
Curvature: 400 : 1200



Curvature: 1200 : 2000

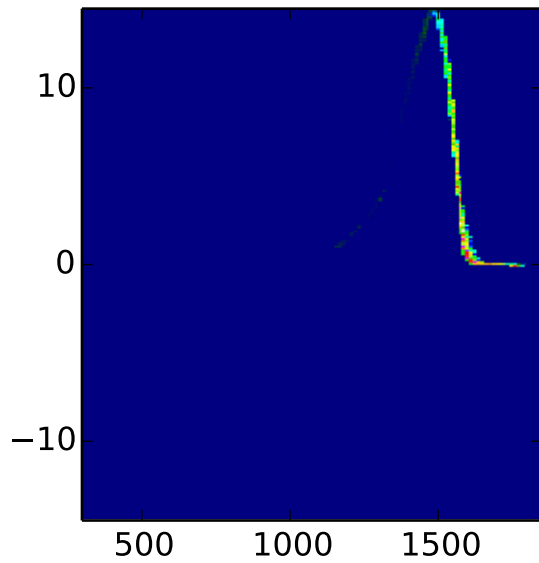


Sum

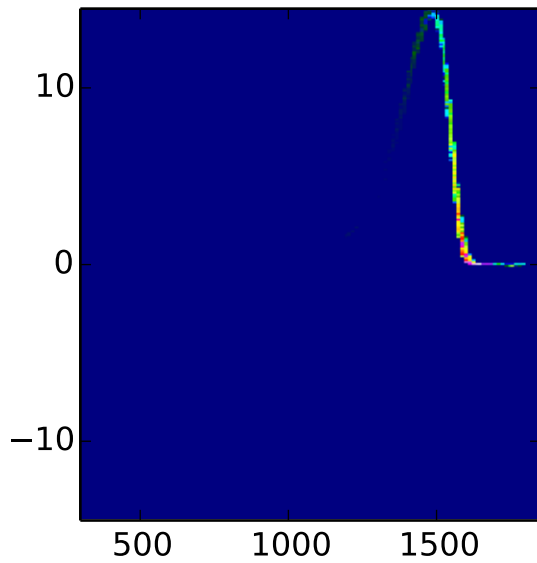


# Edge C2H3 $\rightleftharpoons$ HCO

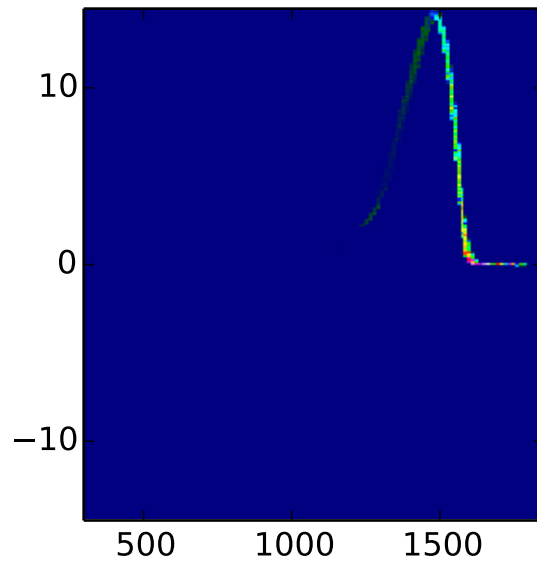
Curvature: -6000 : -5200



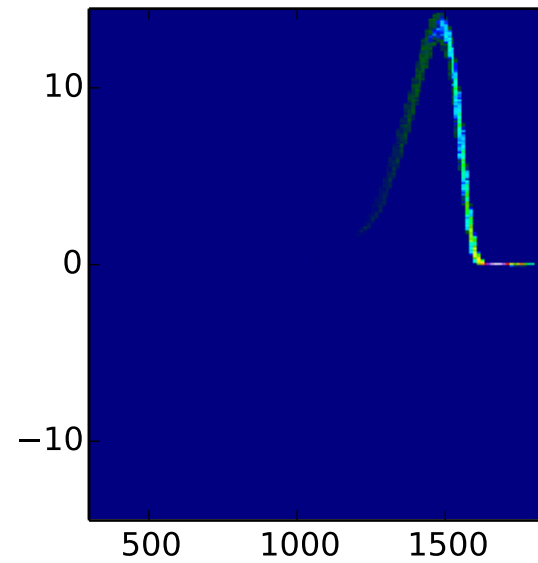
Curvature: -5200 : -4400



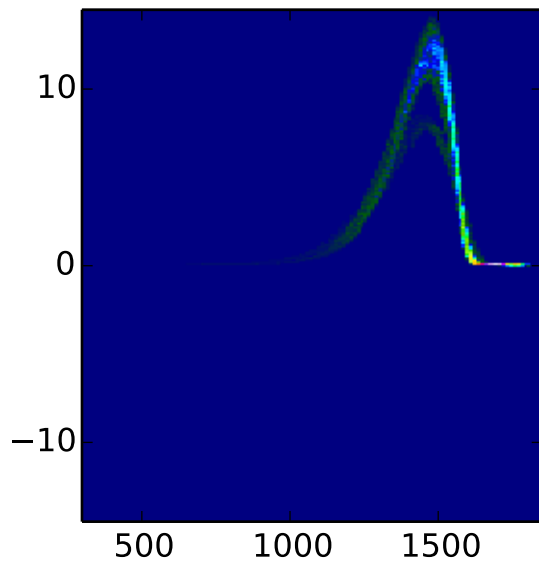
Curvature: -4400 : -3600



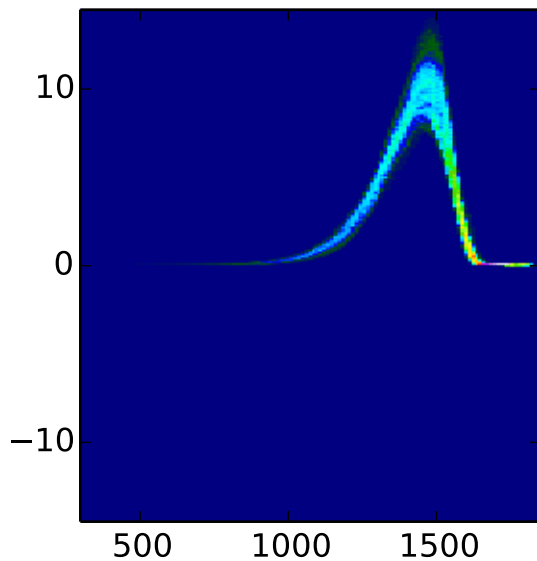
Curvature: -3600 : -2800



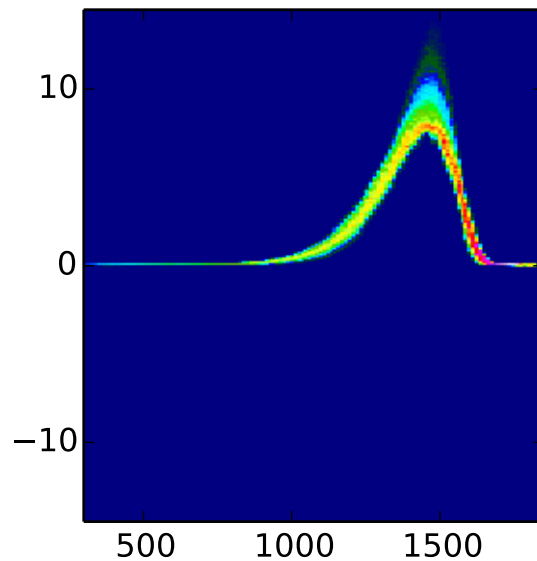
Curvature: -2800 : -2000



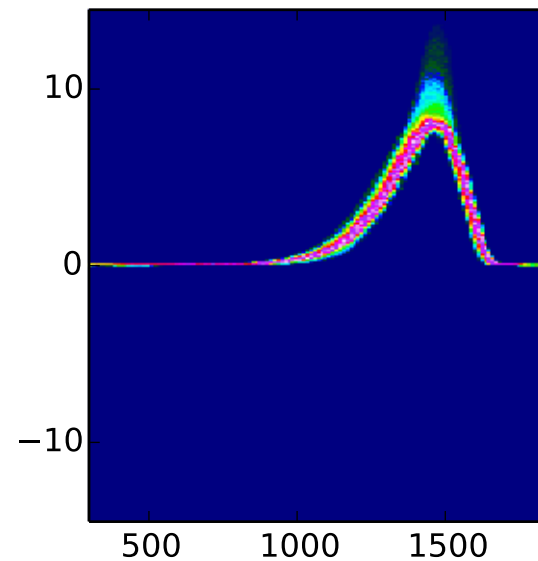
Curvature: -2000 : -1200



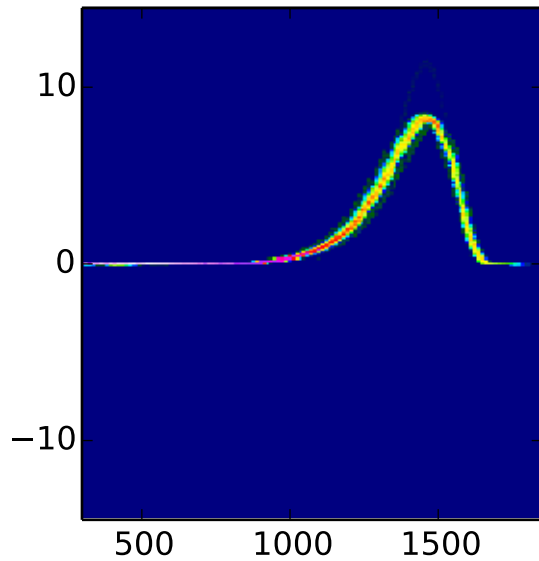
Curvature: -1200 : -400



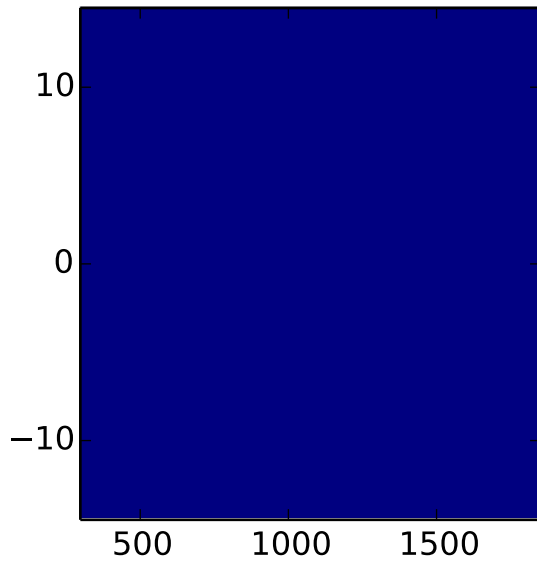
Curvature: -400 : 400



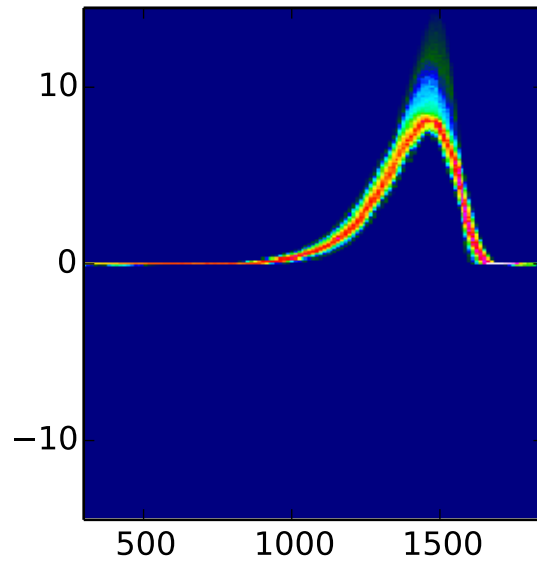
Curvature: 400 : 1200



Curvature: 1200 : 2000



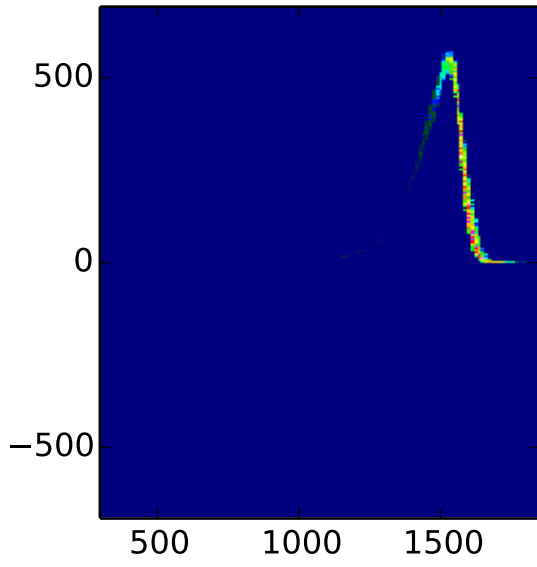
Sum



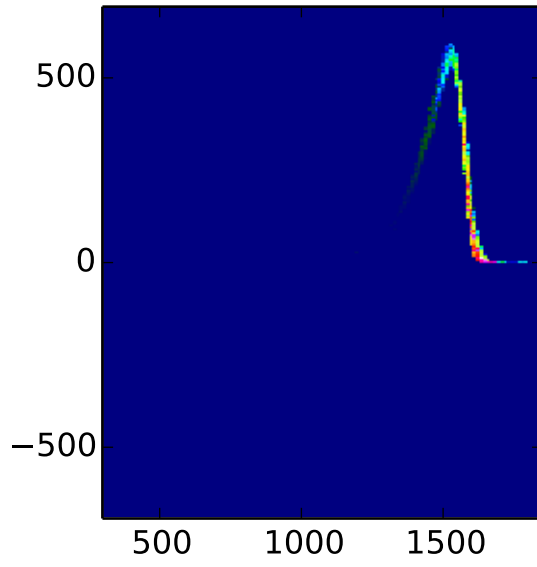


# Edge CH<sub>3</sub> $\rightleftharpoons$ CO

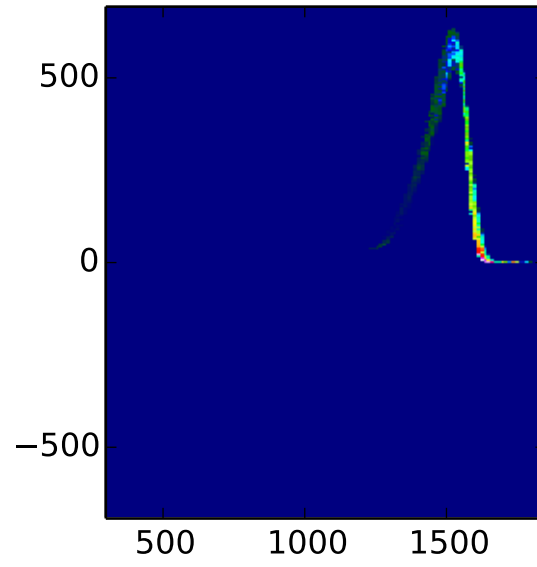
Curvature: -6000 : -5200



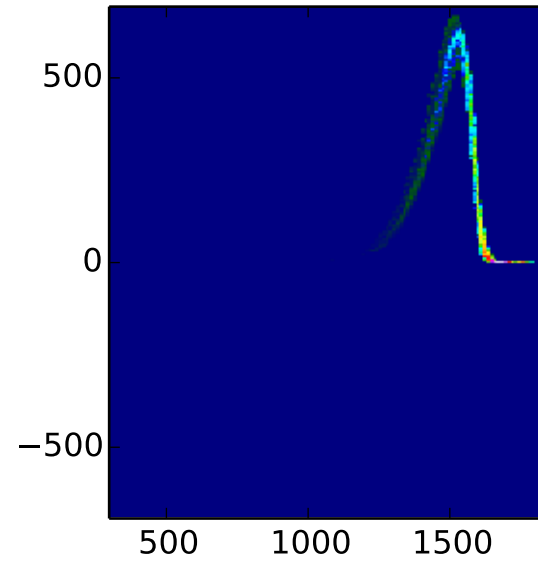
Curvature: -5200 : -4400



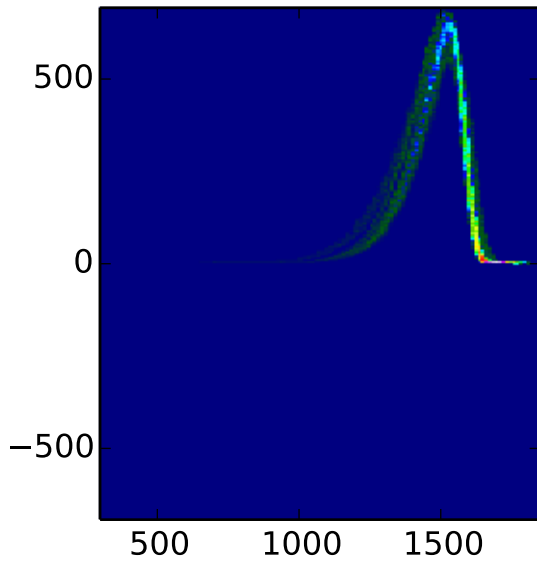
Curvature: -4400 : -3600



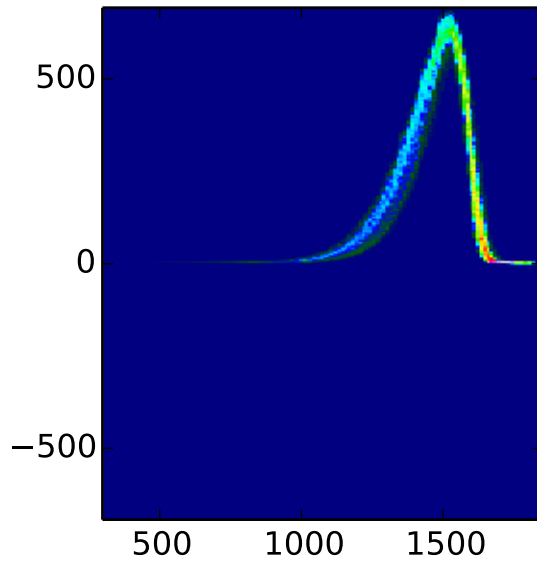
Curvature: -3600 : -2800



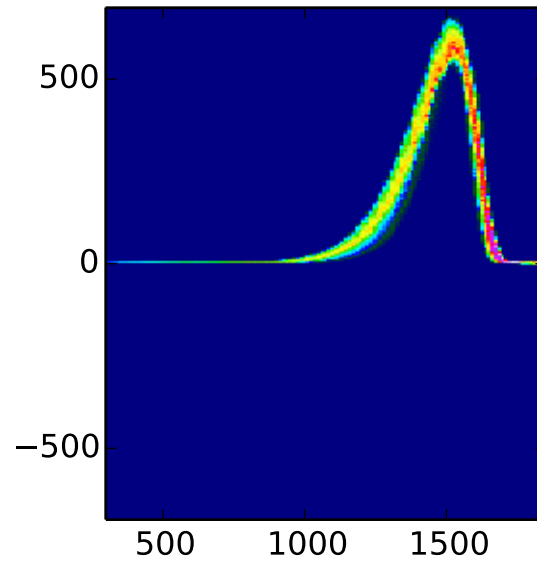
Curvature: -2800 : -2000



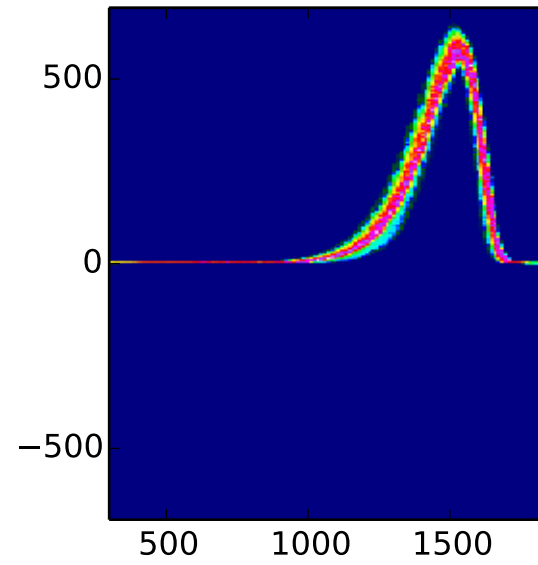
Curvature: -2000 : -1200



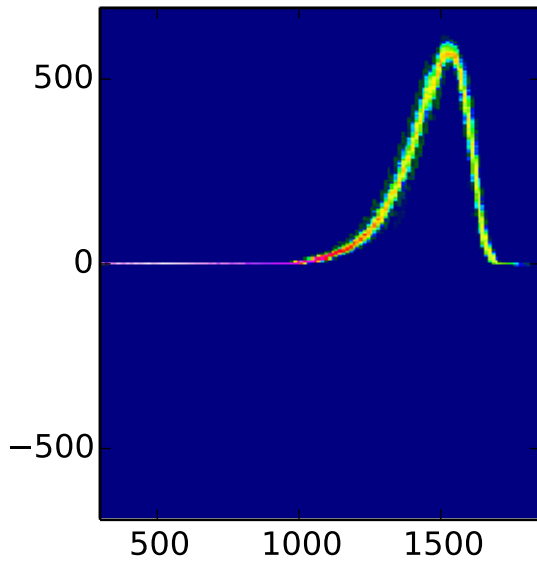
Curvature: -1200 : -400



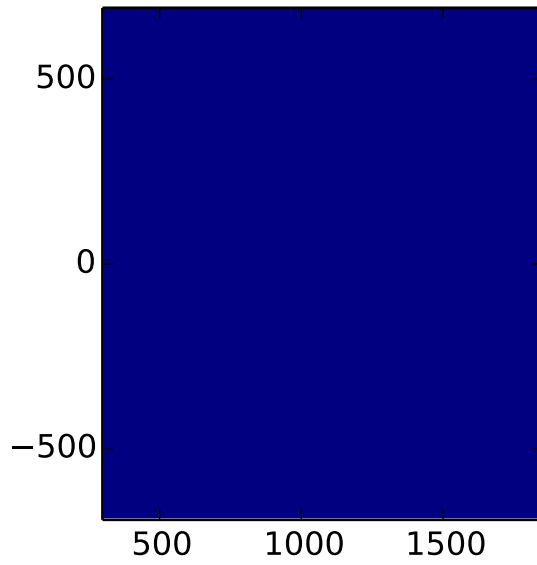
Curvature: -400 : 400



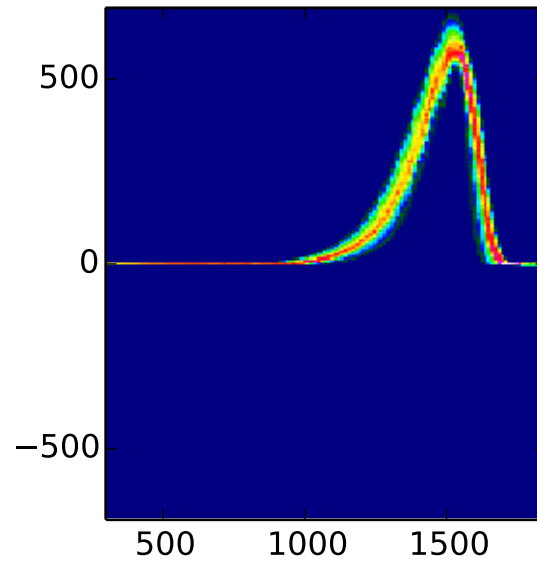
Curvature: 400 : 1200



Curvature: 1200 : 2000

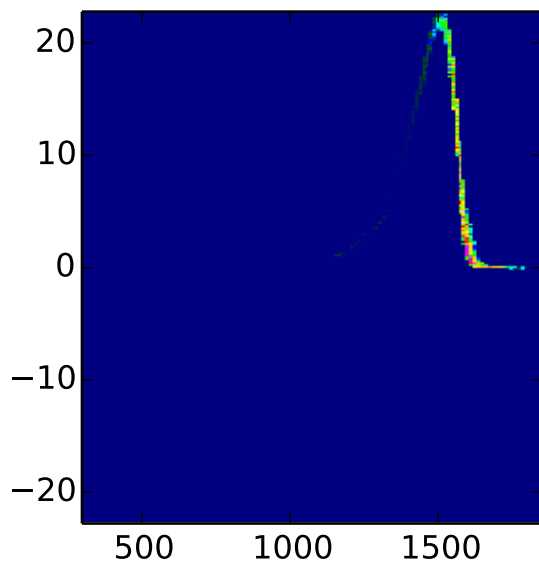


Sum

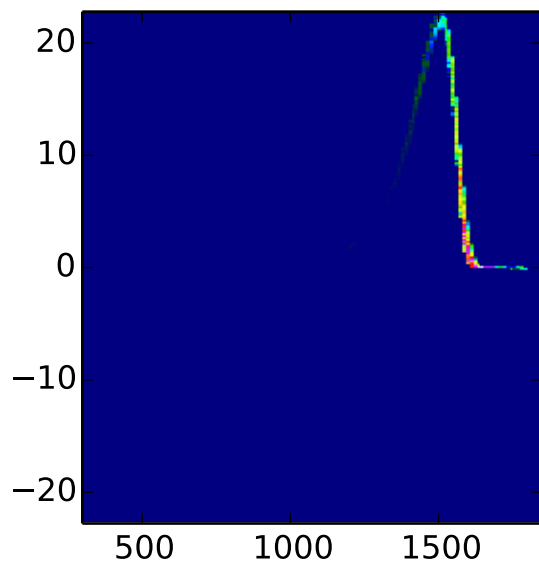


# Edge C2H4 $\rightleftharpoons$ CH2CHO

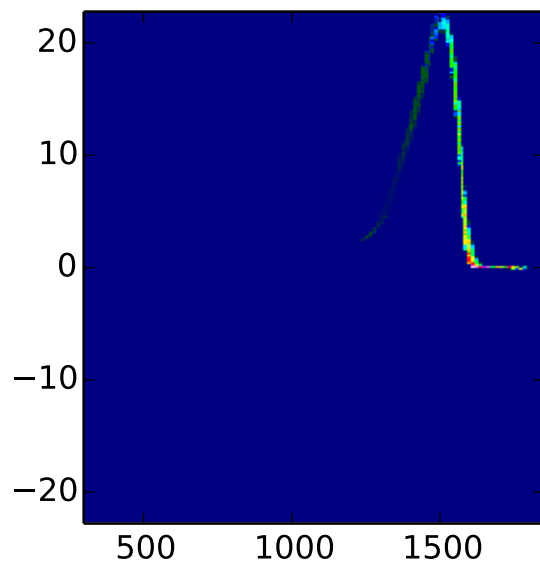
Curvature: -6000 : -5200



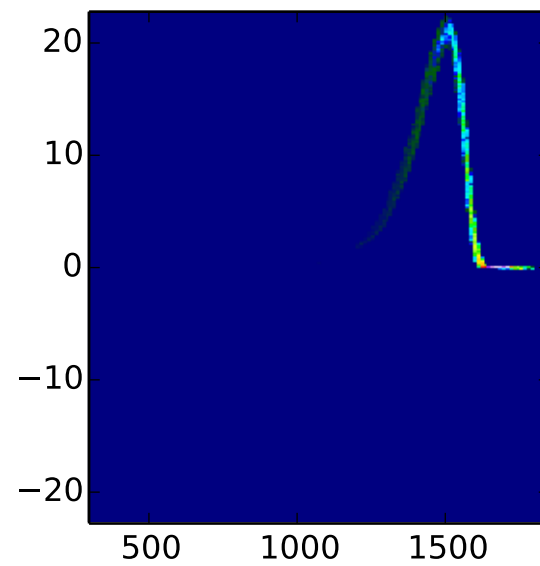
Curvature: -5200 : -4400



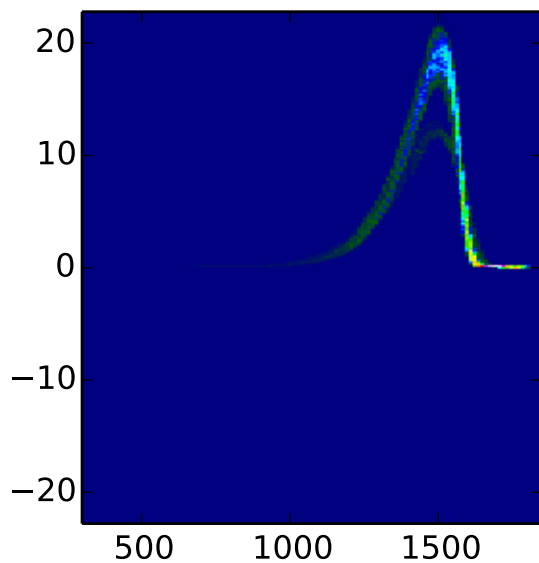
Curvature: -4400 : -3600



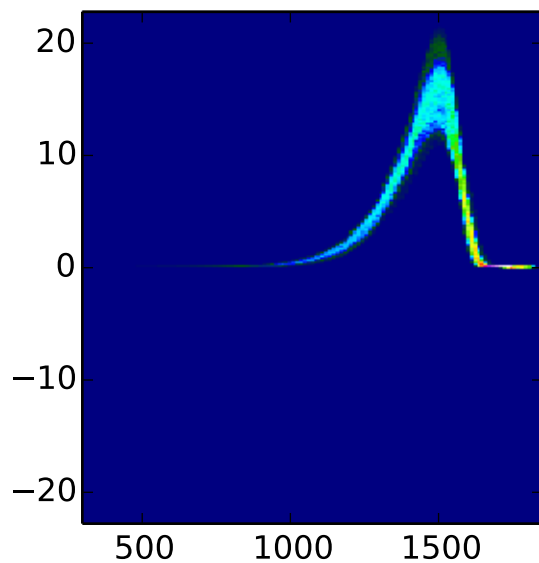
Curvature: -3600 : -2800



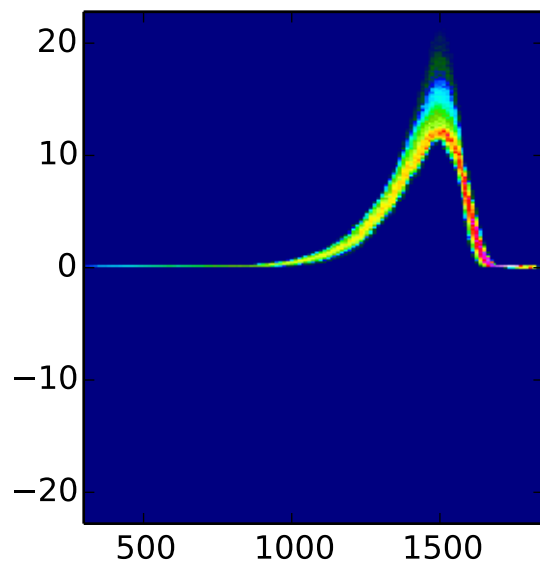
Curvature: -2800 : -2000



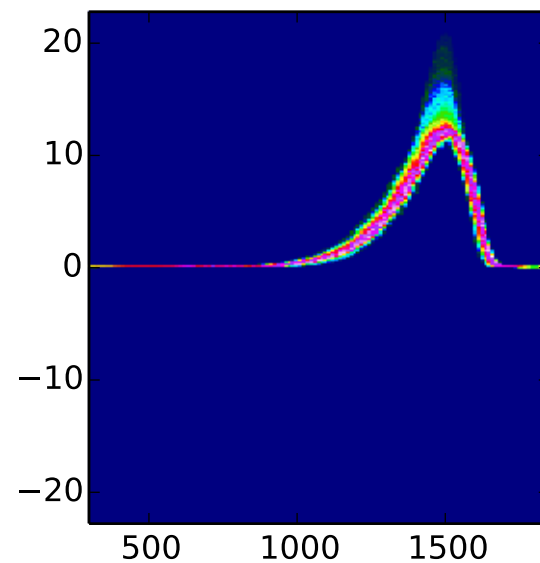
Curvature: -2000 : -1200



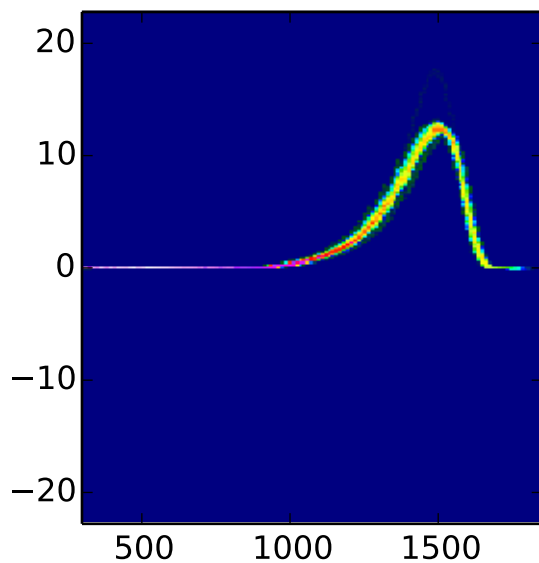
Curvature: -1200 : -400



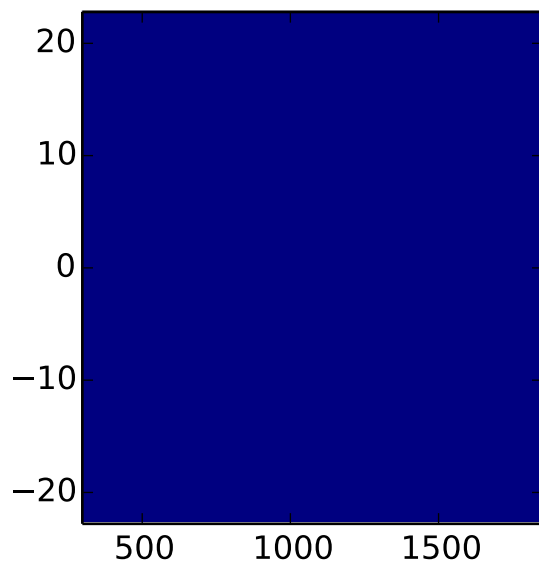
Curvature: -400 : 400



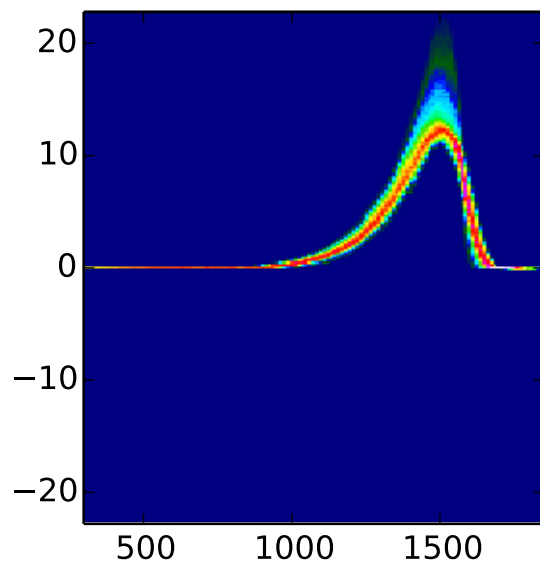
Curvature: 400 : 1200



Curvature: 1200 : 2000

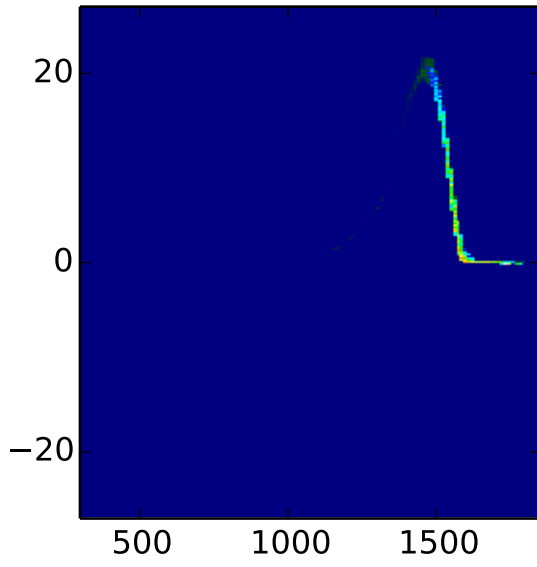


Sum

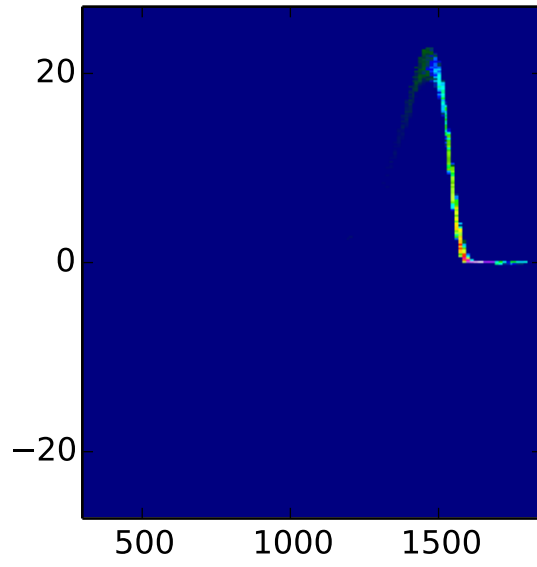


# Edge C2H5 $\rightleftharpoons$ CH3CHO

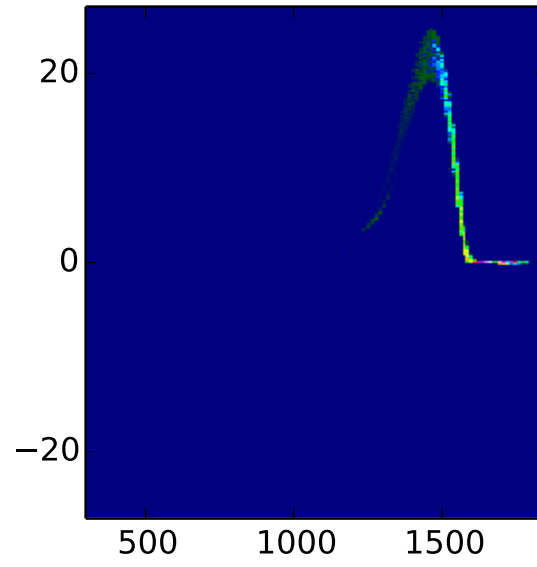
Curvature: -6000 : -5200



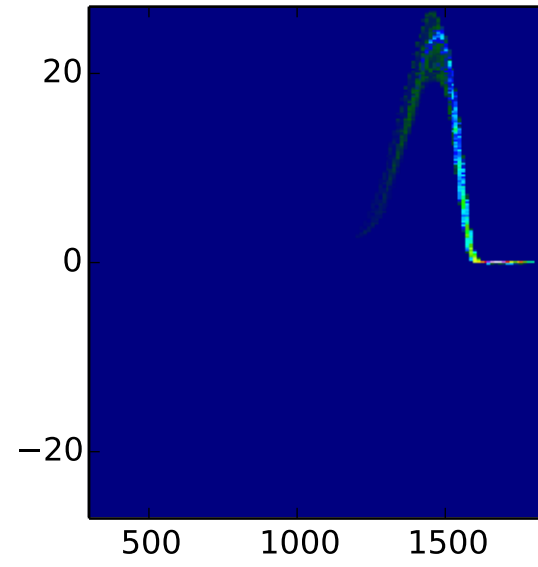
Curvature: -5200 : -4400



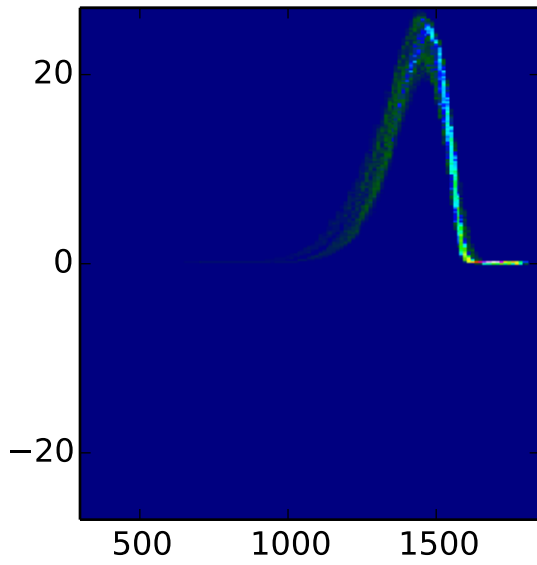
Curvature: -4400 : -3600



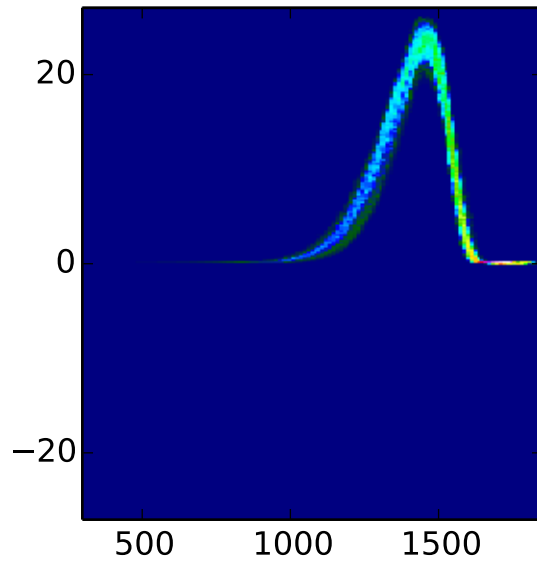
Curvature: -3600 : -2800



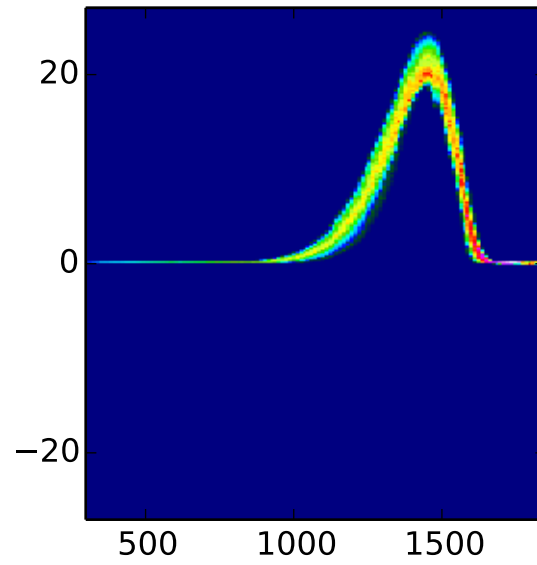
Curvature: -2800 : -2000



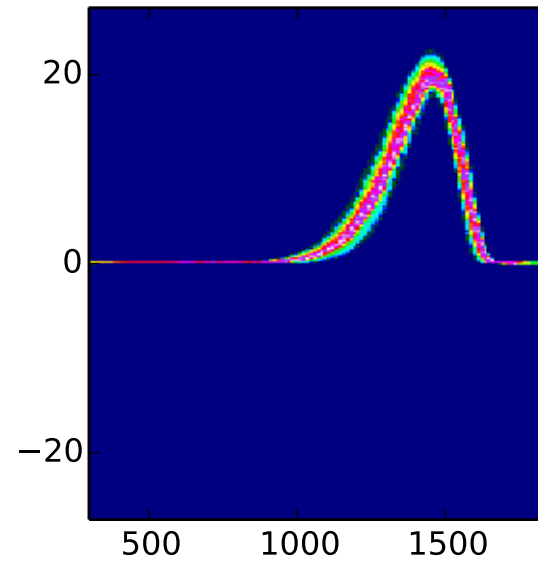
Curvature: -2000 : -1200



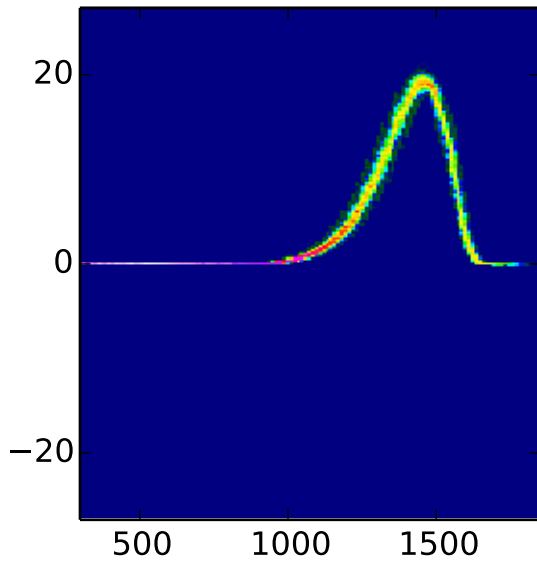
Curvature: -1200 : -400



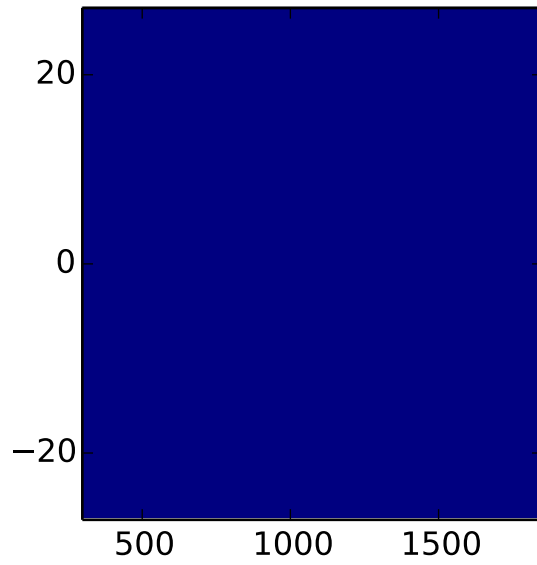
Curvature: -400 : 400



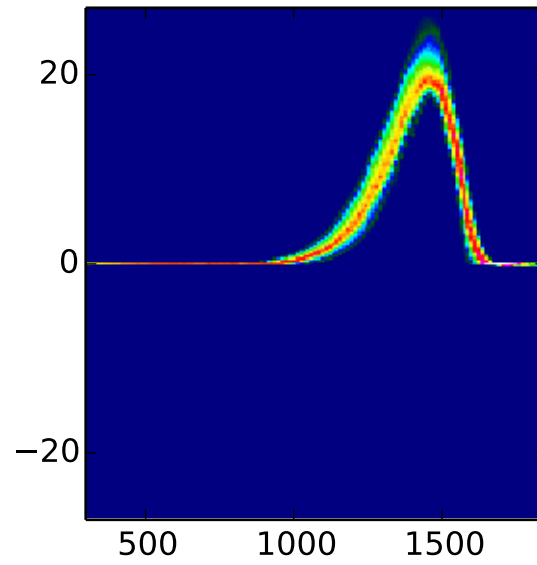
Curvature: 400 : 1200



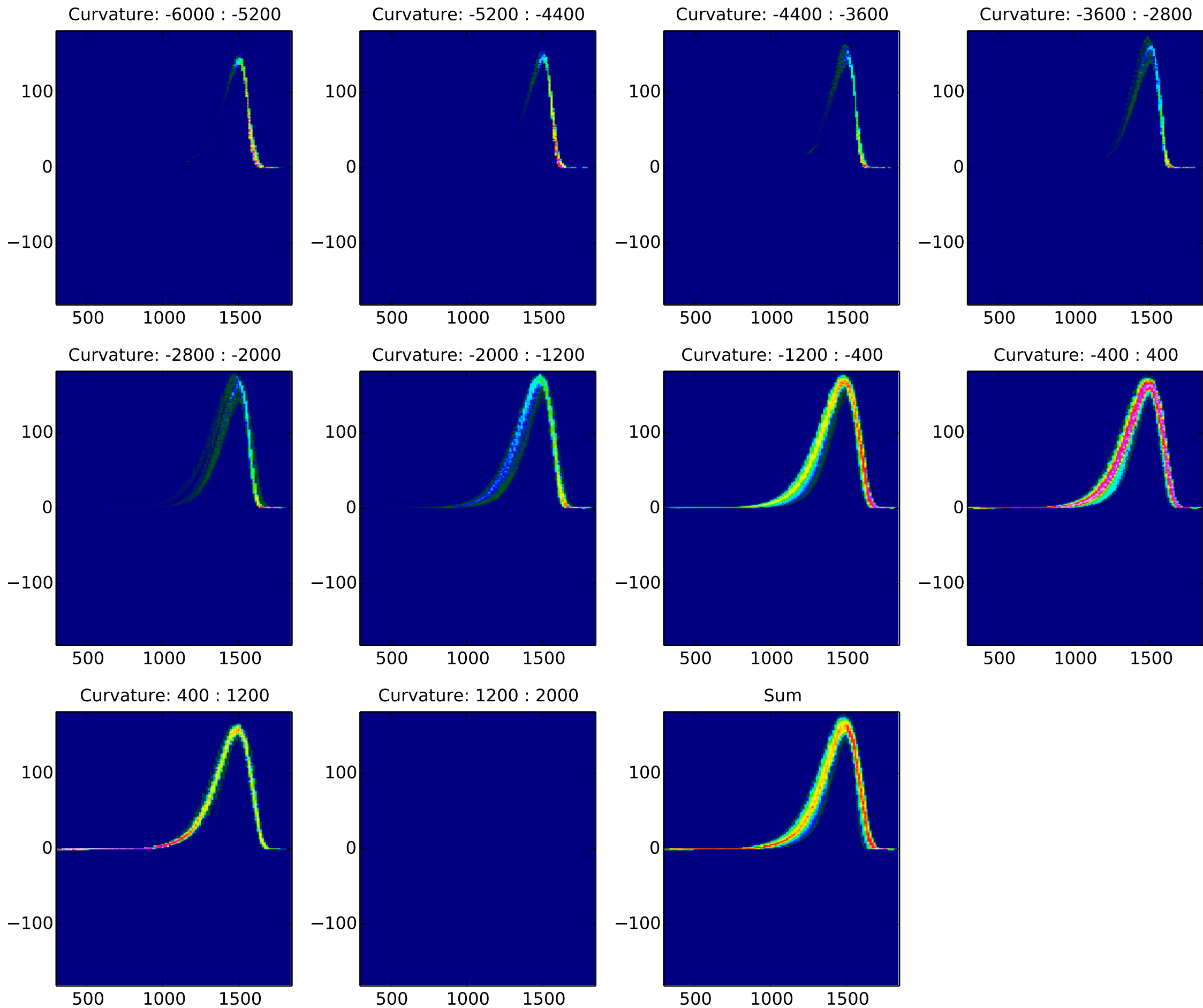
Curvature: 1200 : 2000



Sum

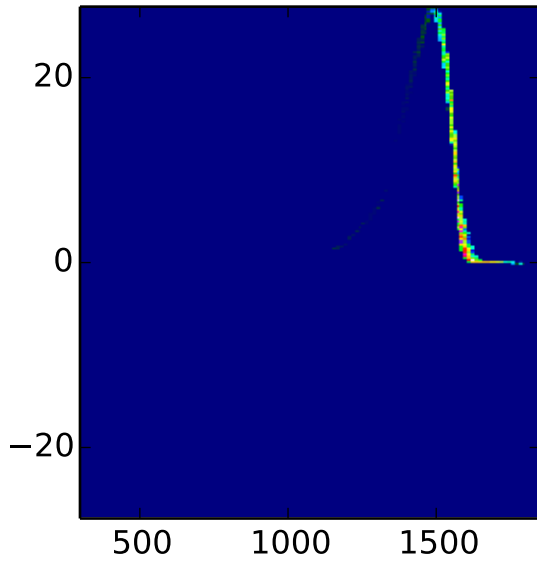


# Edge CH2 $\rightleftharpoons$ CO2

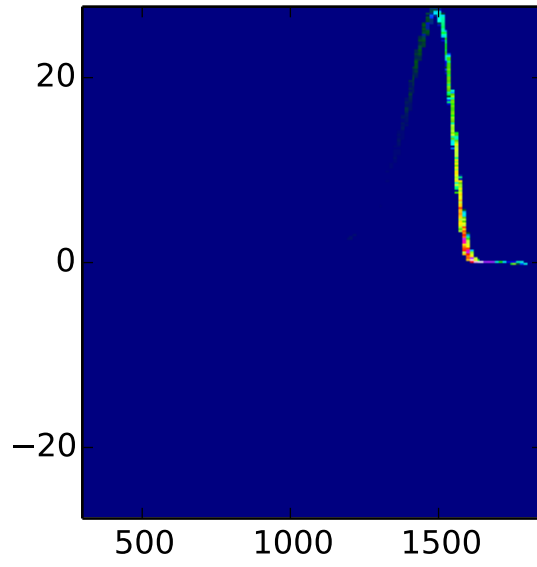


# Edge C2H3 $\rightleftharpoons$ CH2CHO

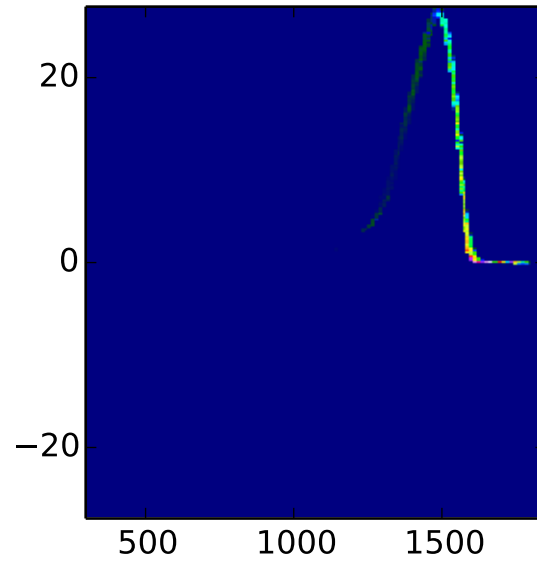
Curvature: -6000 : -5200



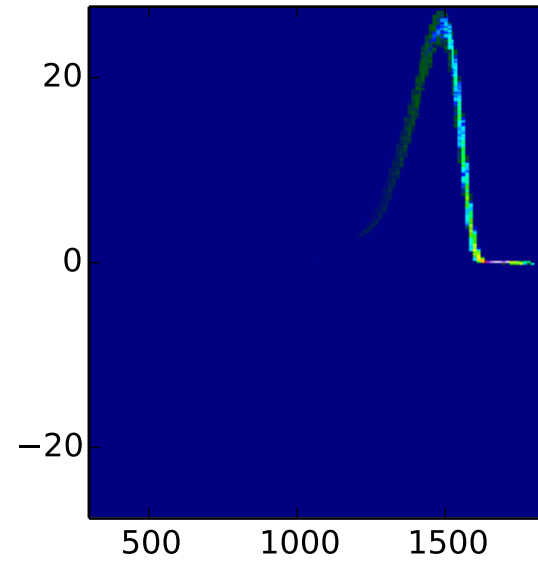
Curvature: -5200 : -4400



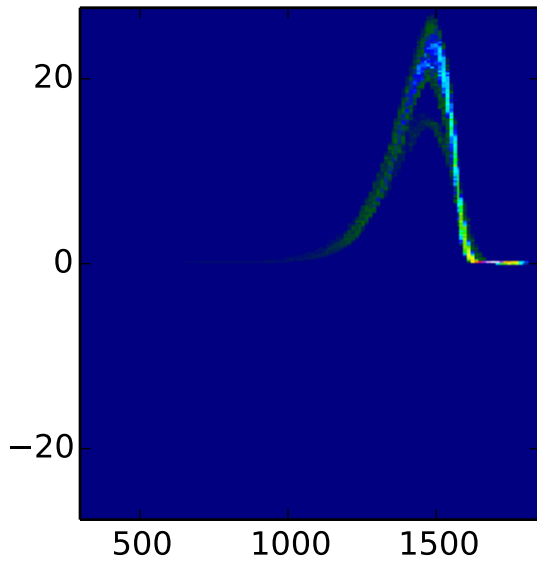
Curvature: -4400 : -3600



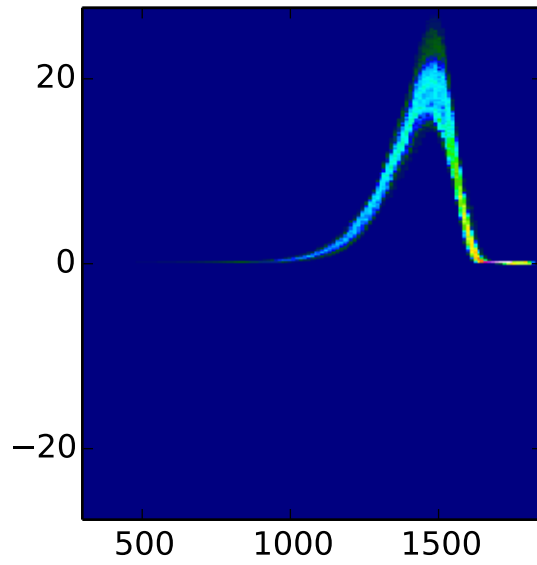
Curvature: -3600 : -2800



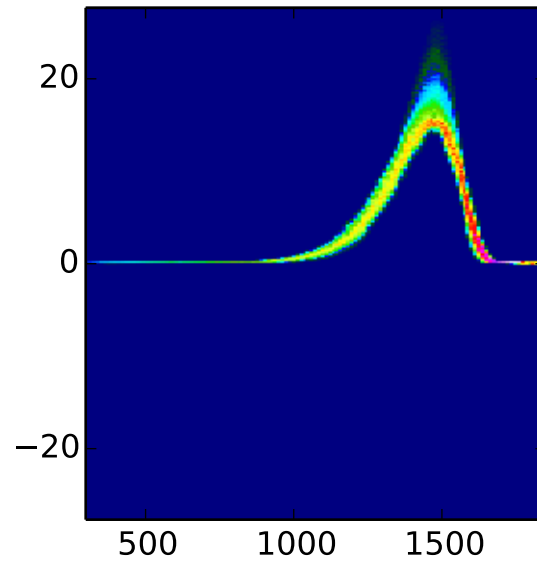
Curvature: -2800 : -2000



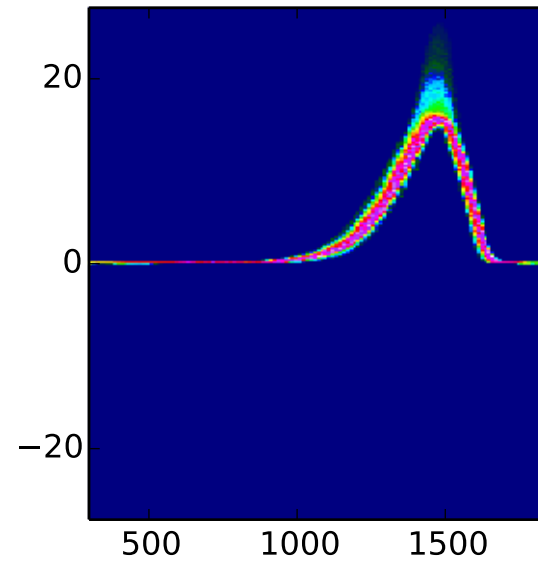
Curvature: -2000 : -1200



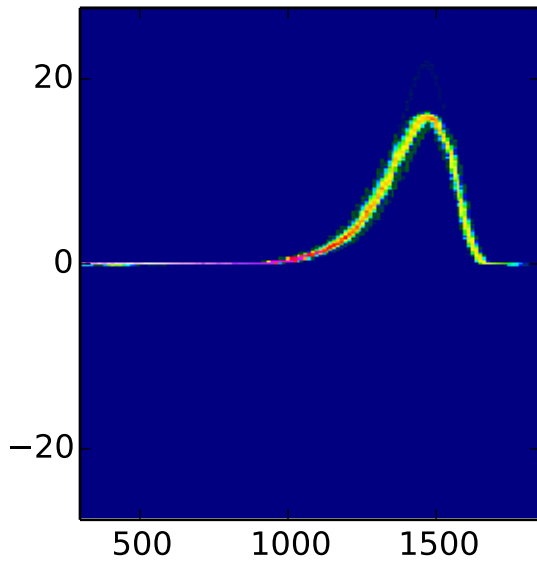
Curvature: -1200 : -400



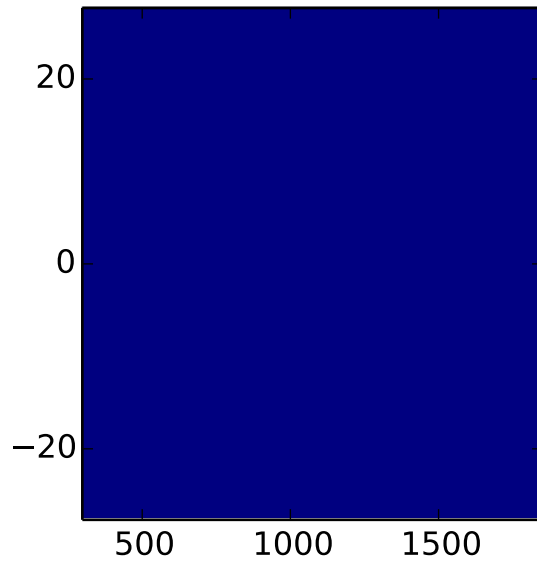
Curvature: -400 : 400



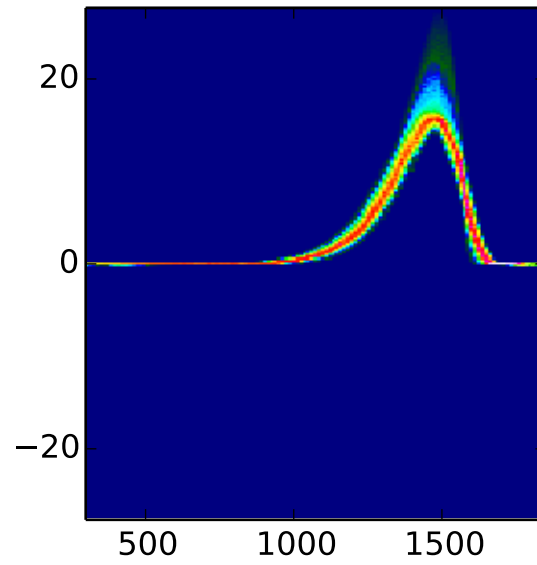
Curvature: 400 : 1200



Curvature: 1200 : 2000

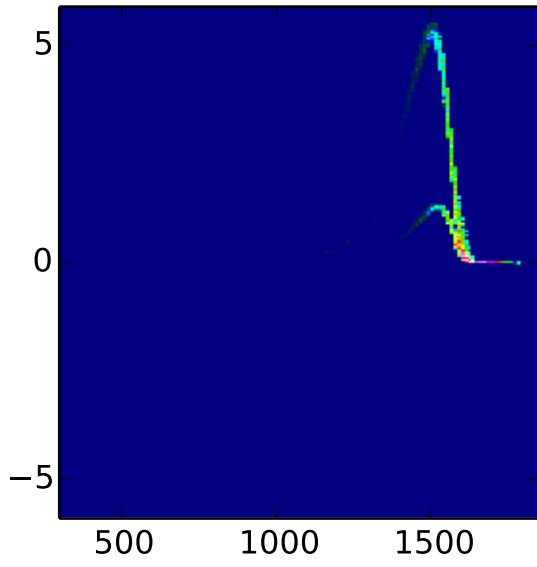


Sum

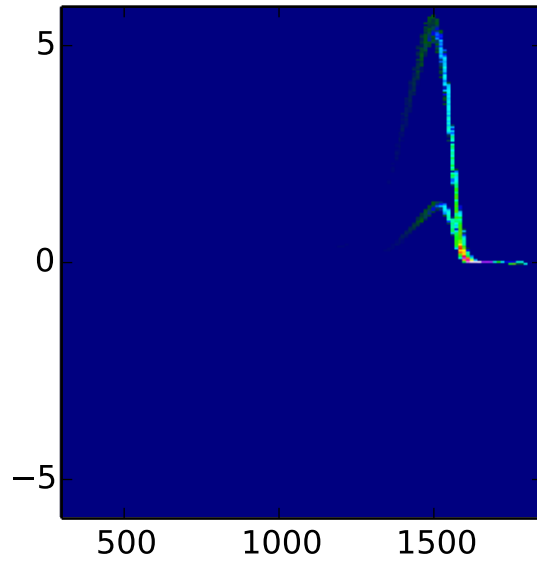


# Edge $\text{CH}_3\text{CHO} \rightleftharpoons \text{CH}_2\text{CHO}$

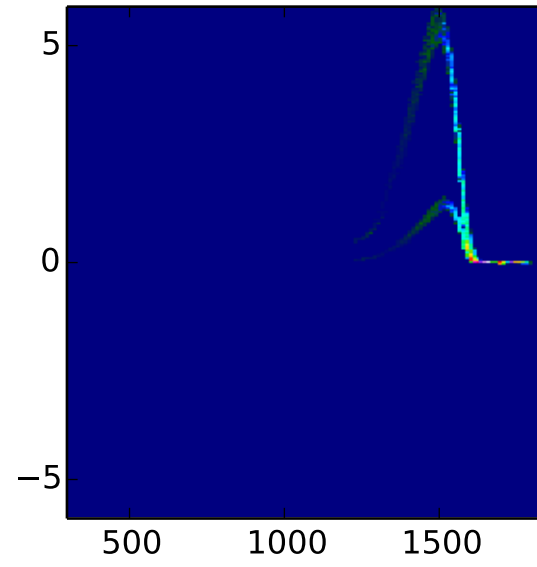
Curvature: -6000 : -5200



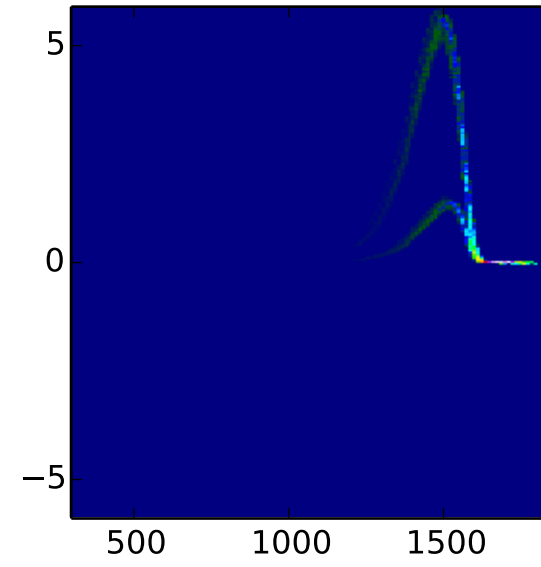
Curvature: -5200 : -4400



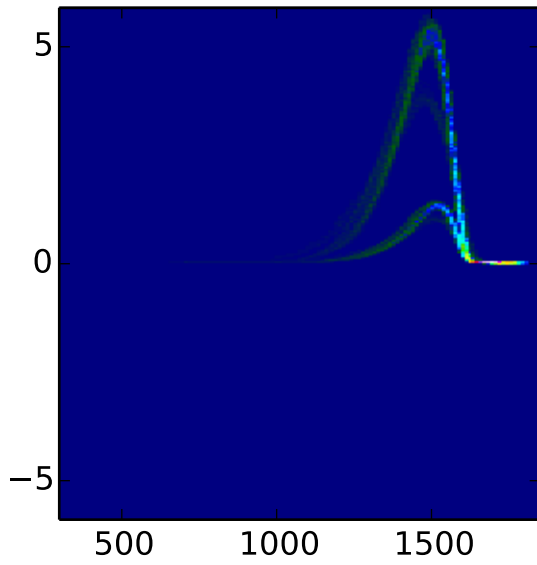
Curvature: -4400 : -3600



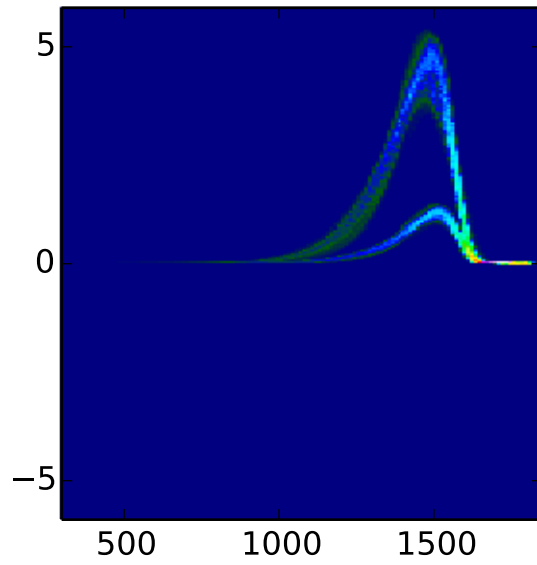
Curvature: -3600 : -2800



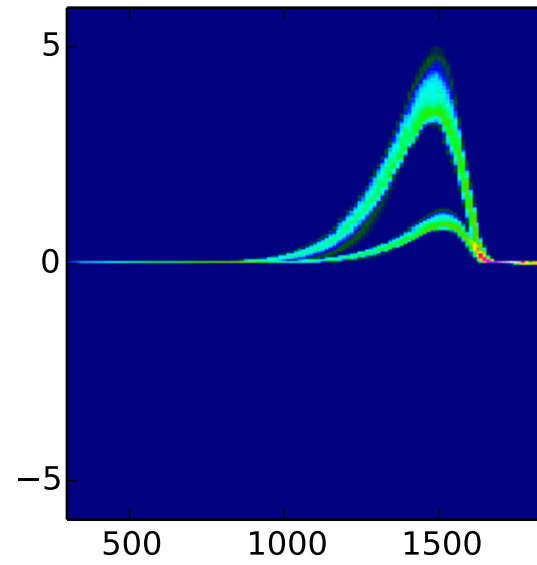
Curvature: -2800 : -2000



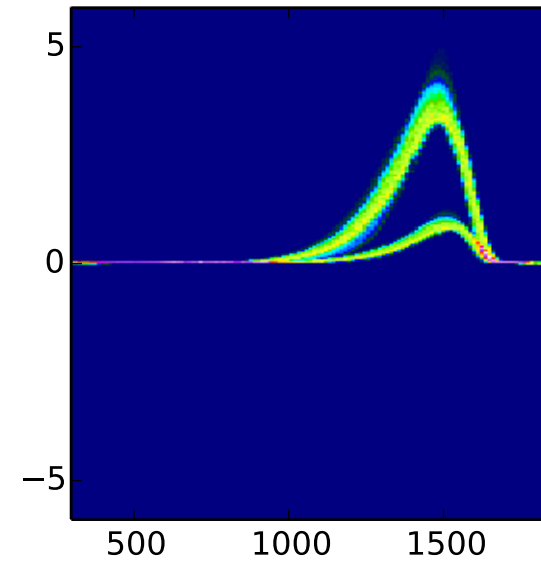
Curvature: -2000 : -1200



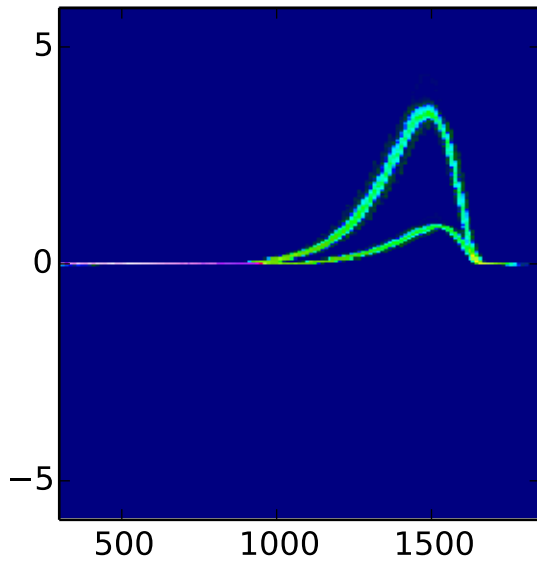
Curvature: -1200 : -400



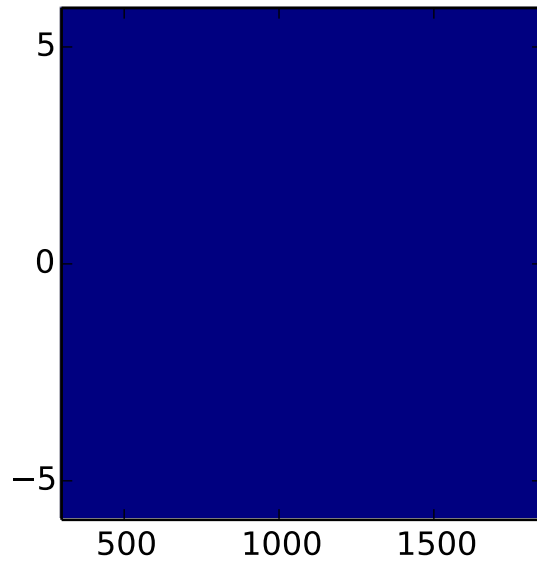
Curvature: -400 : 400



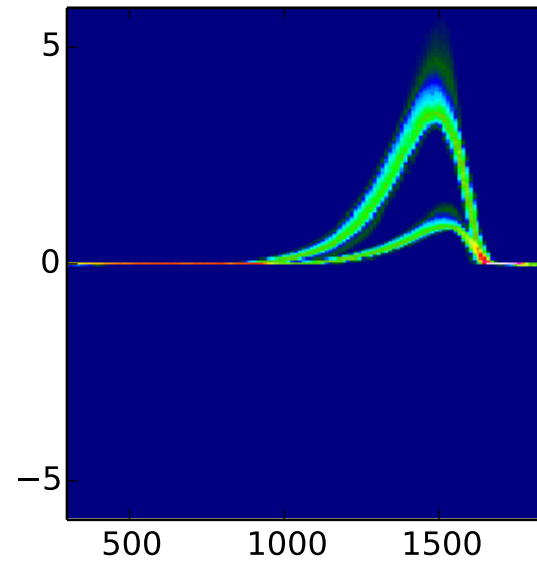
Curvature: 400 : 1200



Curvature: 1200 : 2000

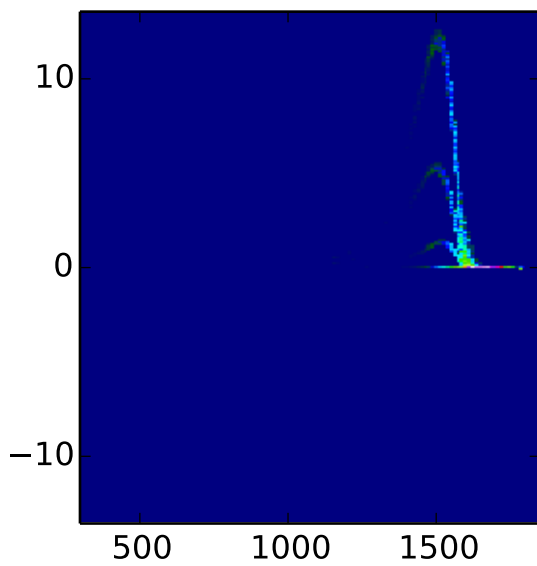


Sum

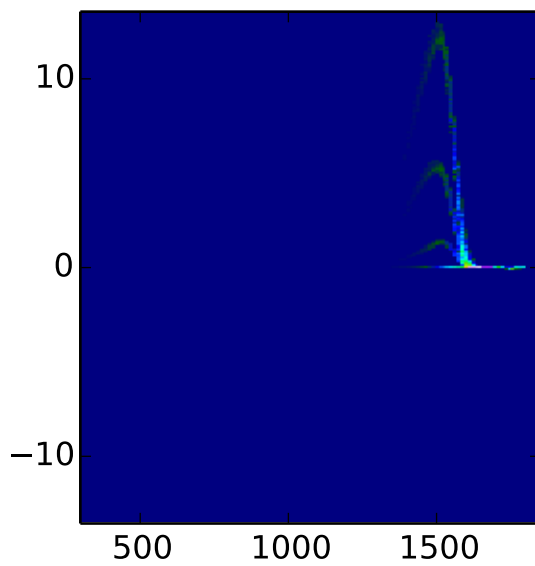


# Edge CH<sub>3</sub>CHO $\rightleftharpoons$ CH<sub>3</sub>

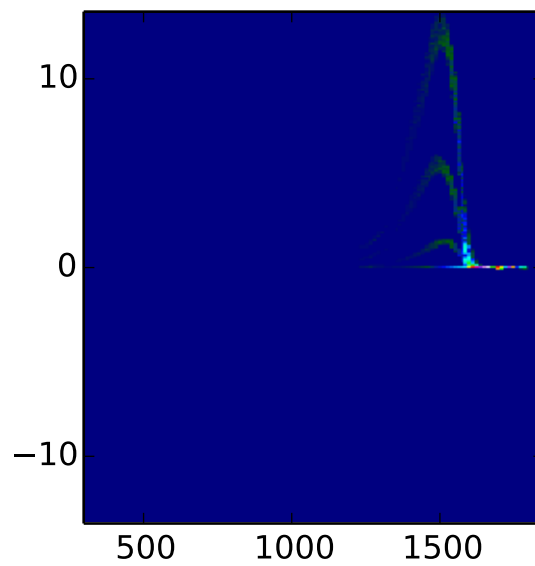
Curvature: -6000 : -5200



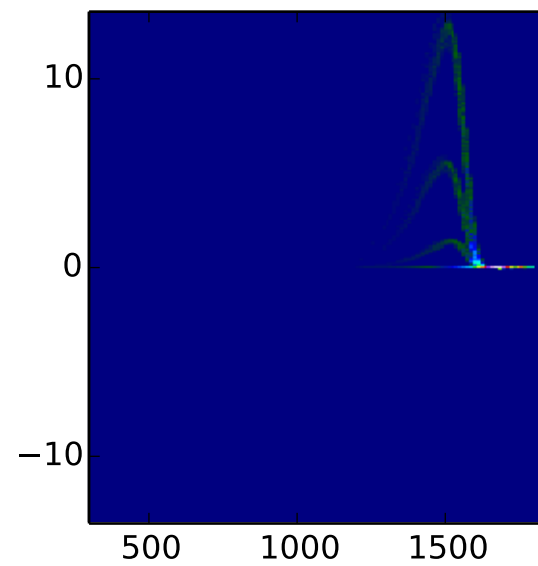
Curvature: -5200 : -4400



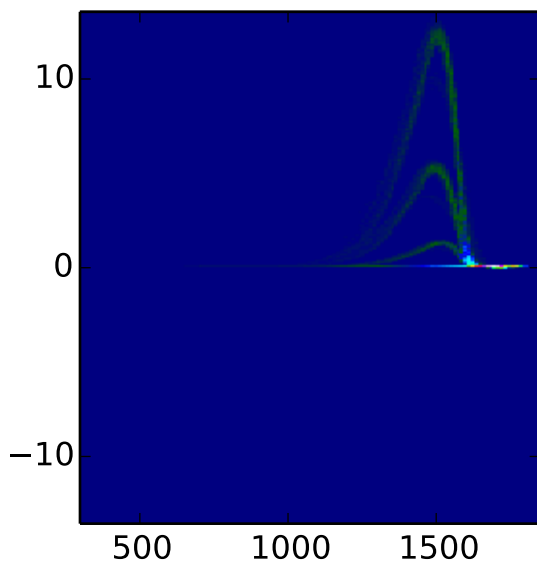
Curvature: -4400 : -3600



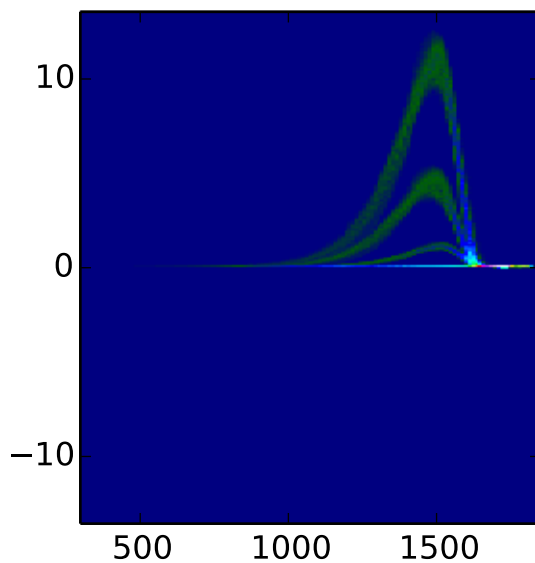
Curvature: -3600 : -2800



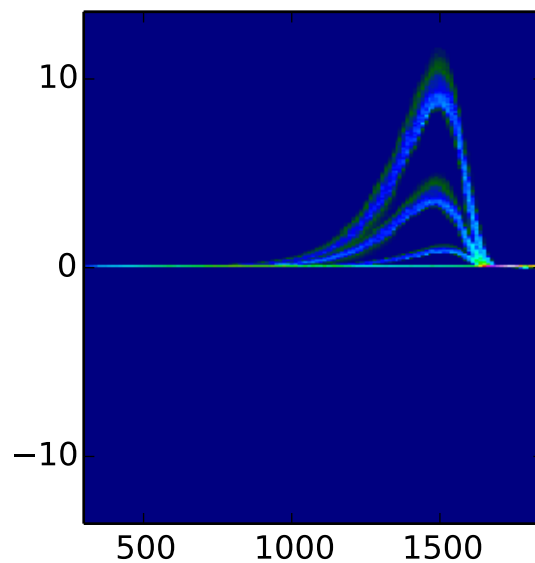
Curvature: -2800 : -2000



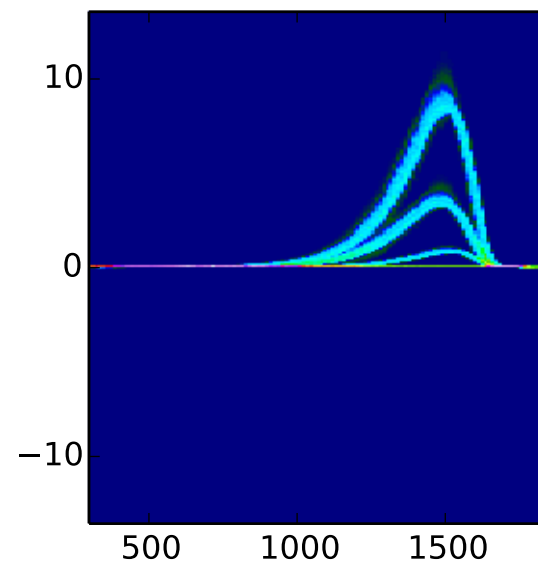
Curvature: -2000 : -1200



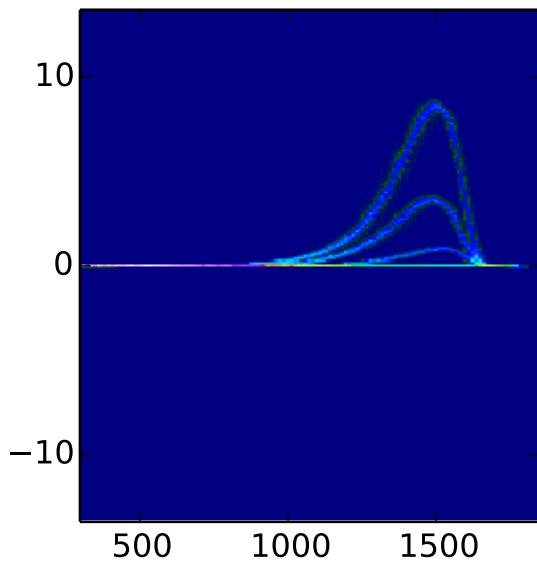
Curvature: -1200 : -400



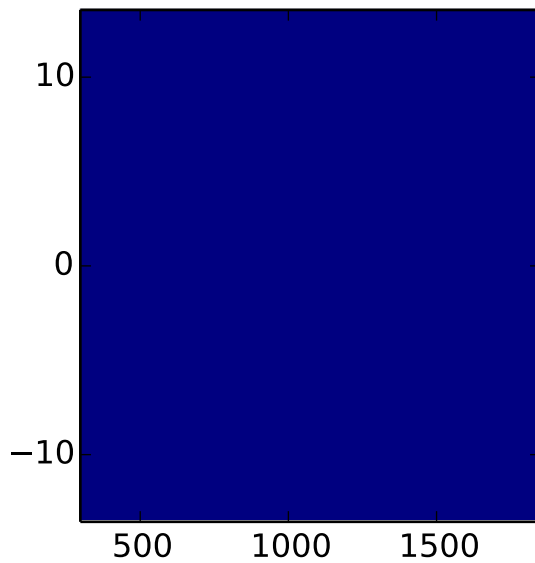
Curvature: -400 : 400



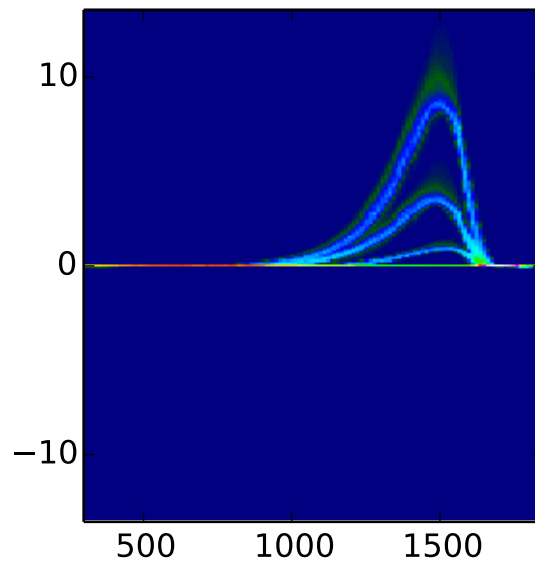
Curvature: 400 : 1200



Curvature: 1200 : 2000

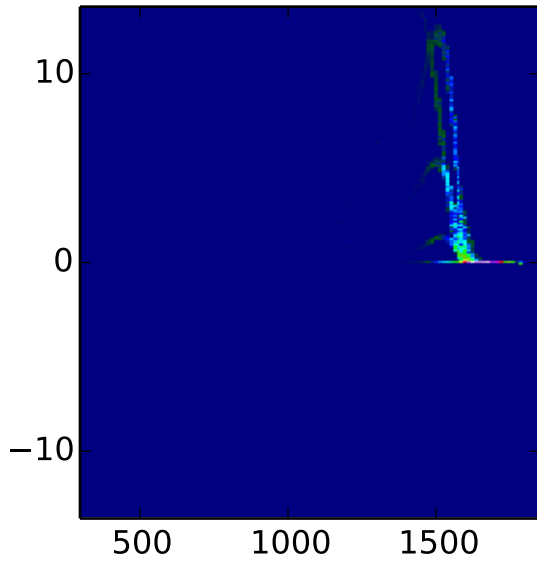


Sum

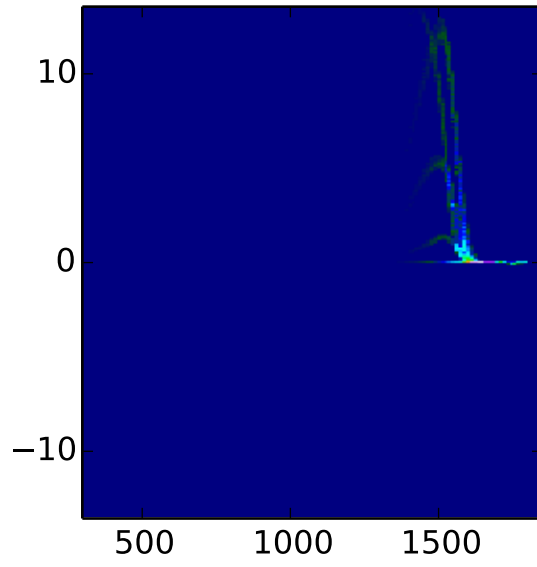


# Edge CH<sub>3</sub>CHO $\rightleftharpoons$ CO

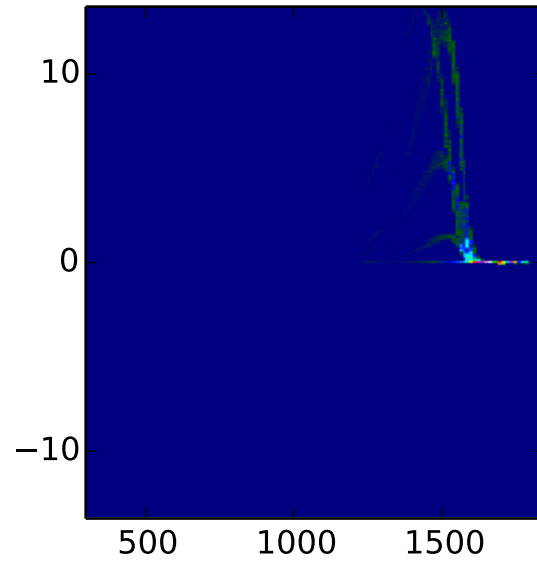
Curvature: -6000 : -5200



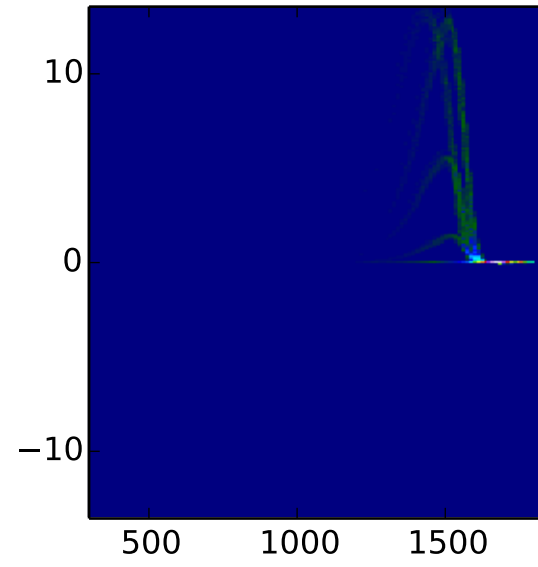
Curvature: -5200 : -4400



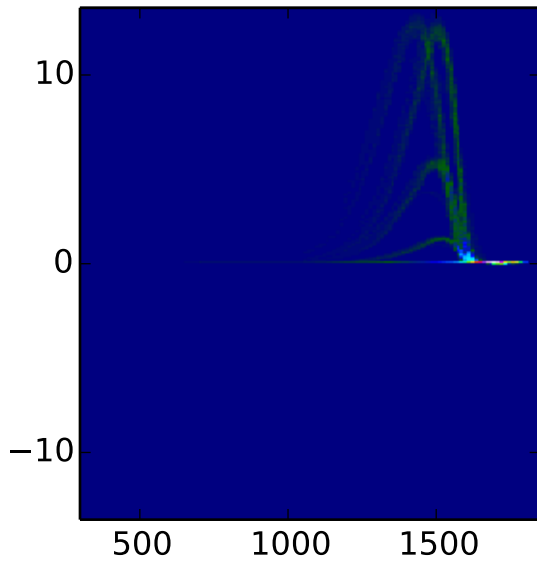
Curvature: -4400 : -3600



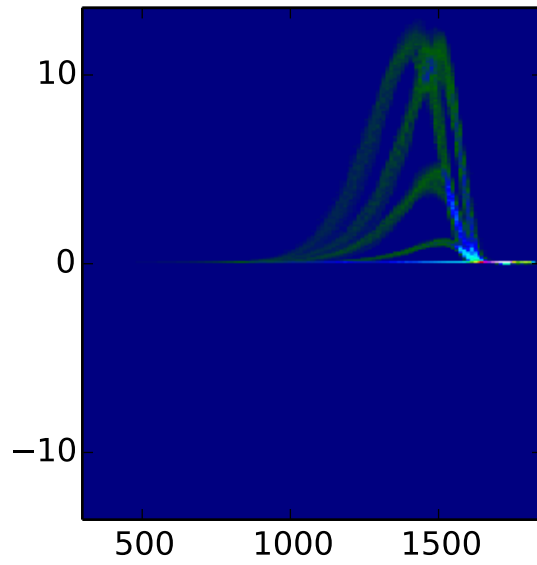
Curvature: -3600 : -2800



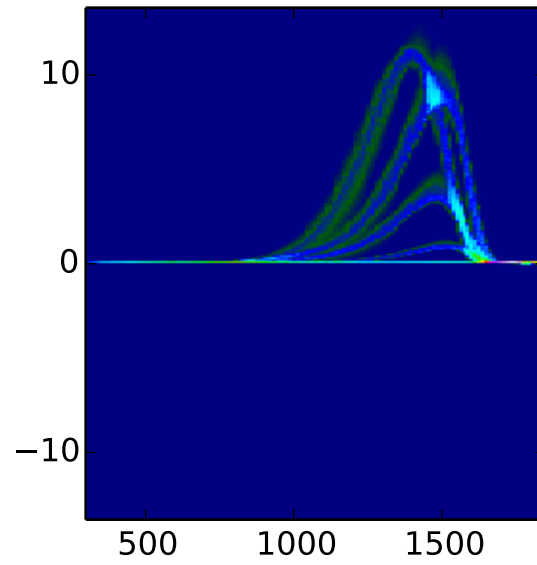
Curvature: -2800 : -2000



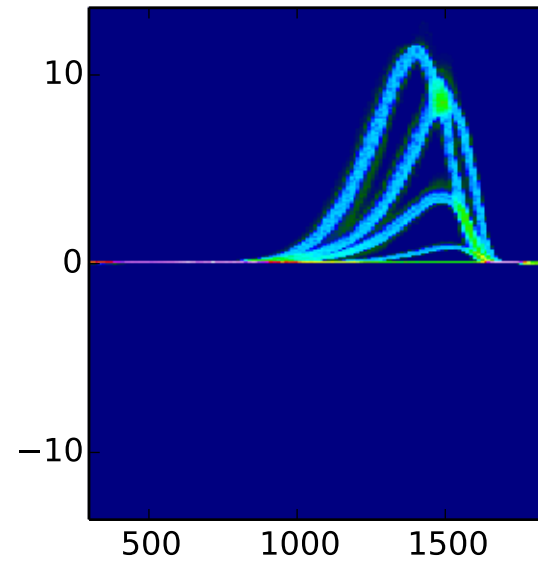
Curvature: -2000 : -1200



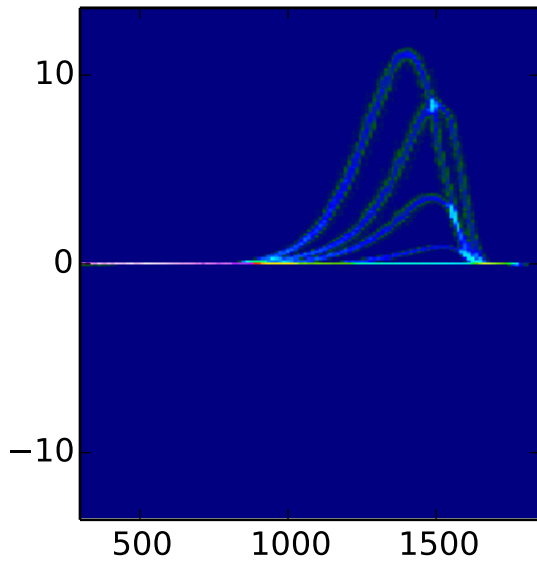
Curvature: -1200 : -400



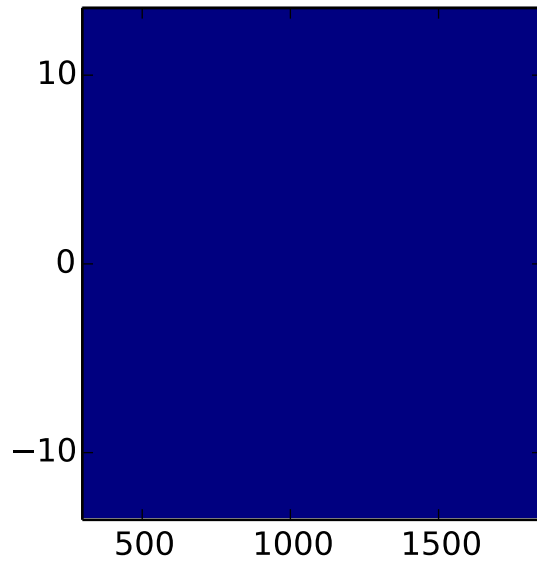
Curvature: -400 : 400



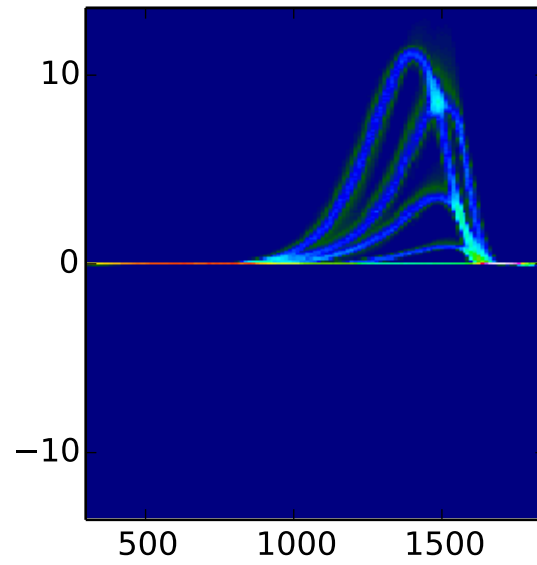
Curvature: 400 : 1200



Curvature: 1200 : 2000



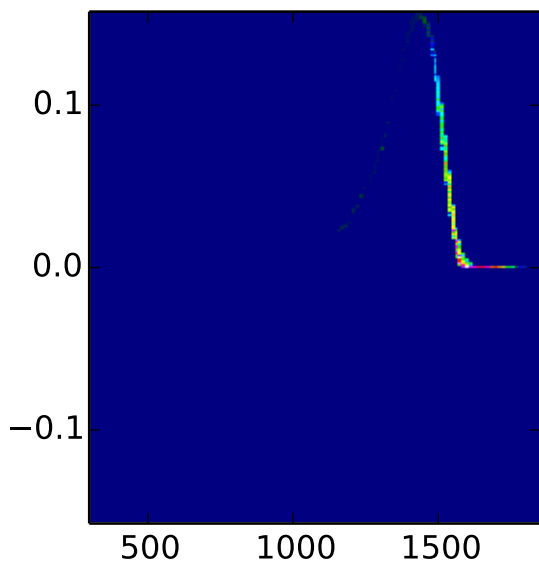
Sum



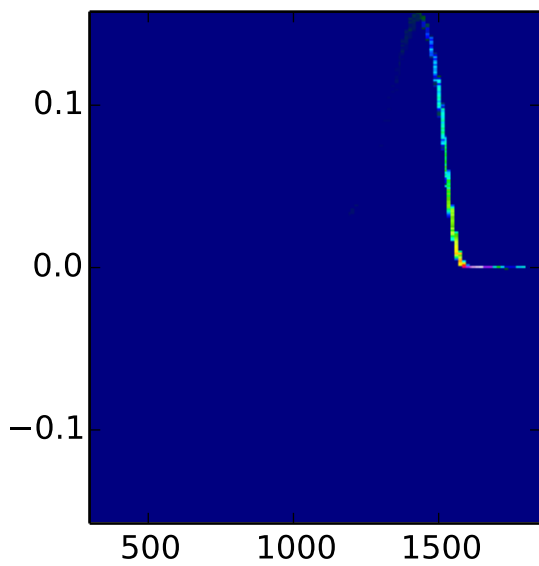


# Edge CH<sub>3</sub>CHO $\rightleftharpoons$ CH<sub>4</sub>

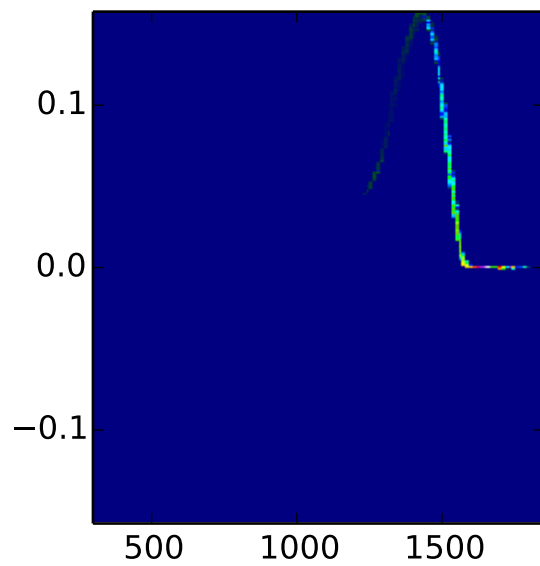
Curvature: -6000 : -5200



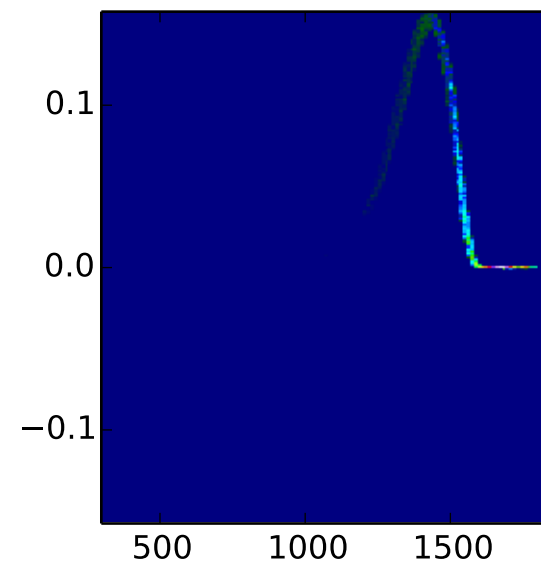
Curvature: -5200 : -4400



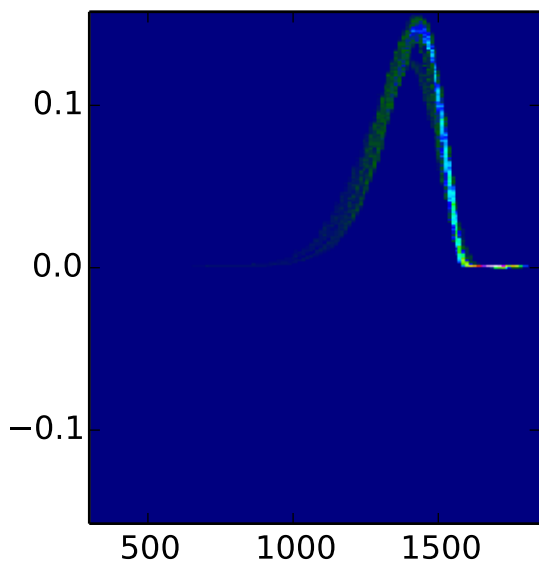
Curvature: -4400 : -3600



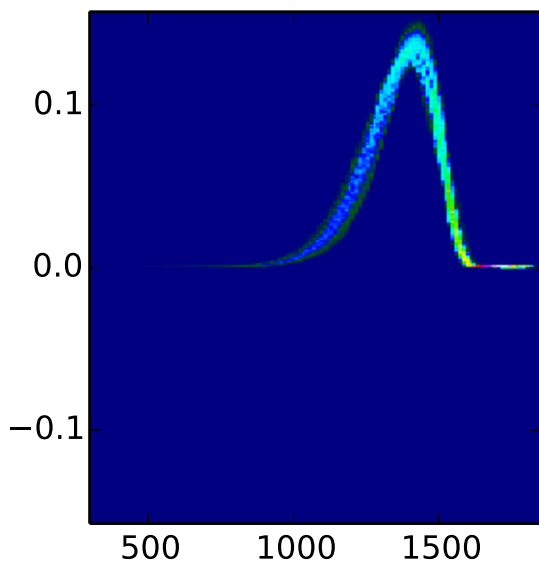
Curvature: -3600 : -2800



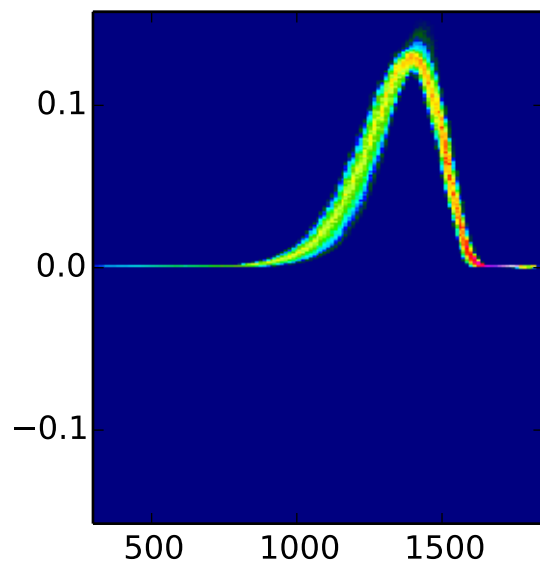
Curvature: -2800 : -2000



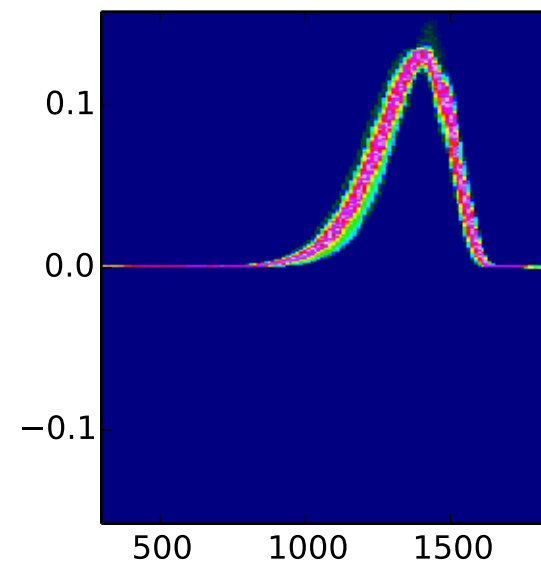
Curvature: -2000 : -1200



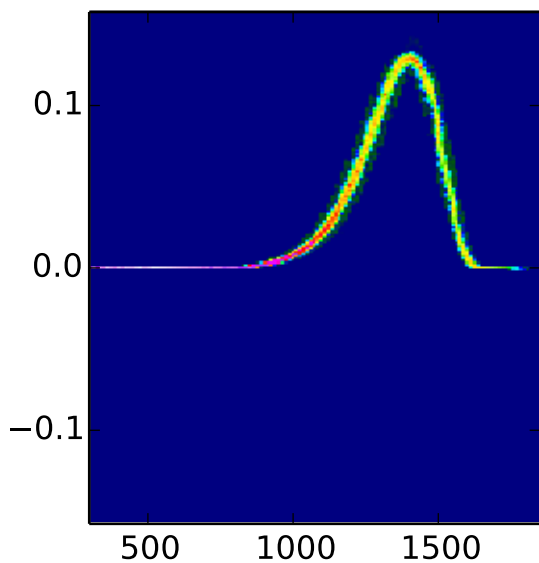
Curvature: -1200 : -400



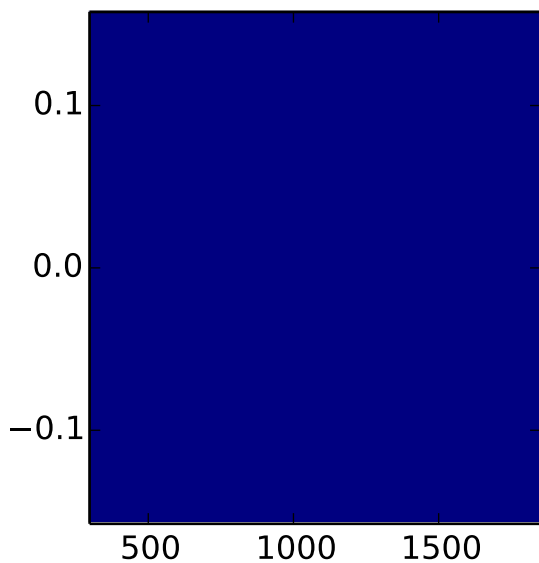
Curvature: -400 : 400



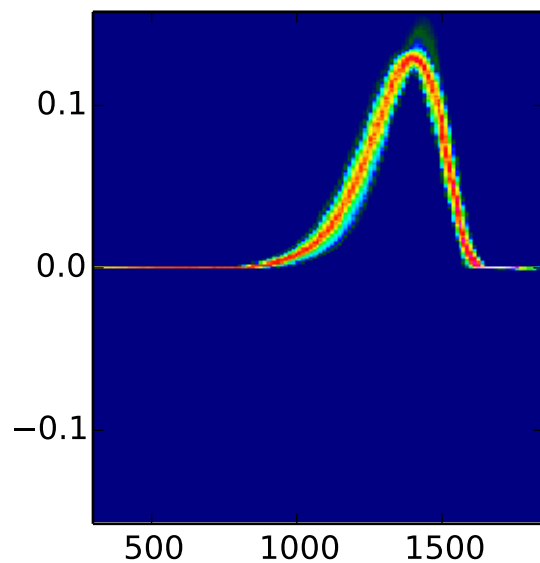
Curvature: 400 : 1200



Curvature: 1200 : 2000

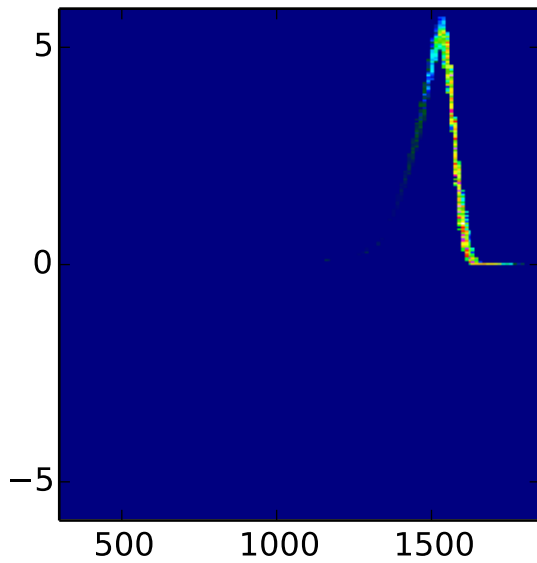


Sum

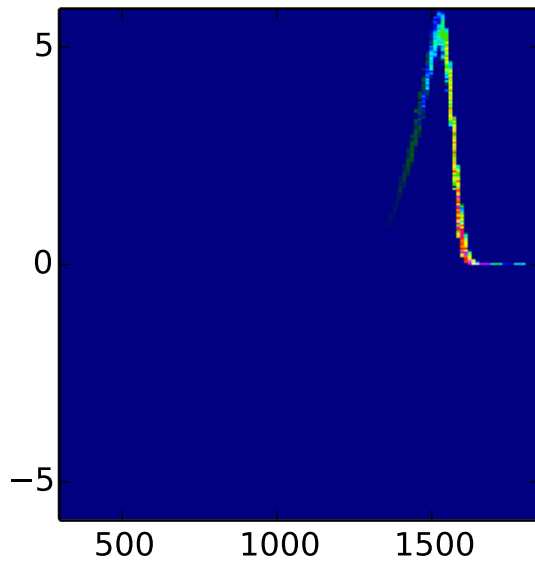


# Edge CH<sub>2</sub>CHO $\rightleftharpoons$ CH<sub>2</sub>

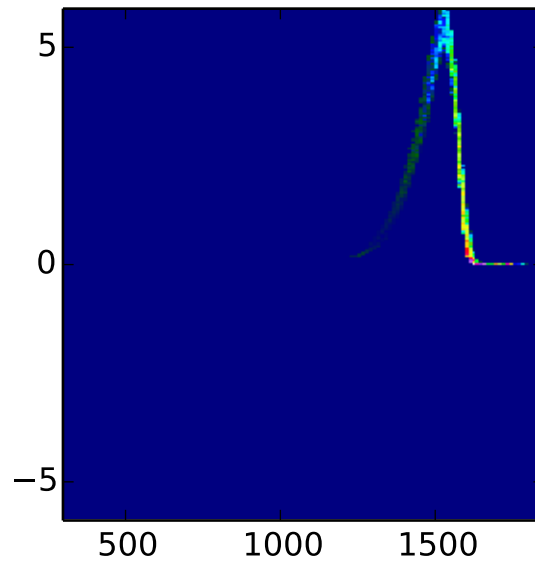
Curvature: -6000 : -5200



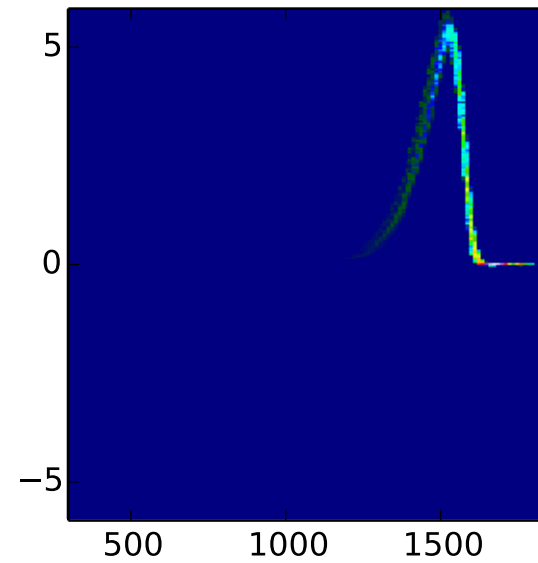
Curvature: -5200 : -4400



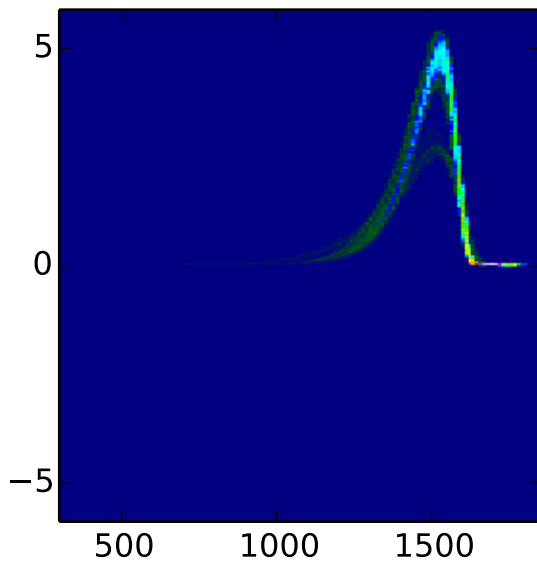
Curvature: -4400 : -3600



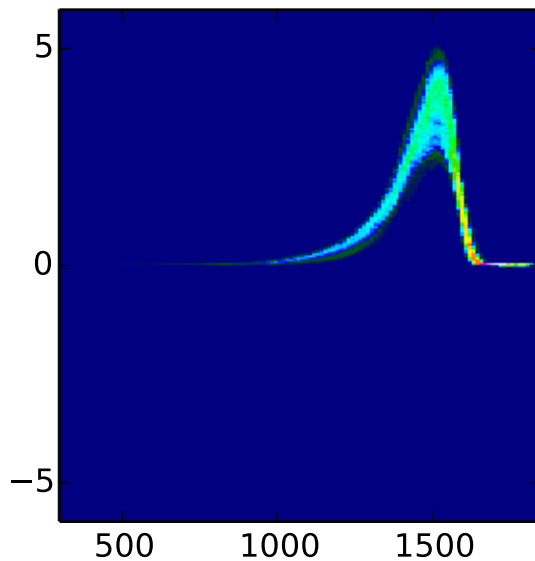
Curvature: -3600 : -2800



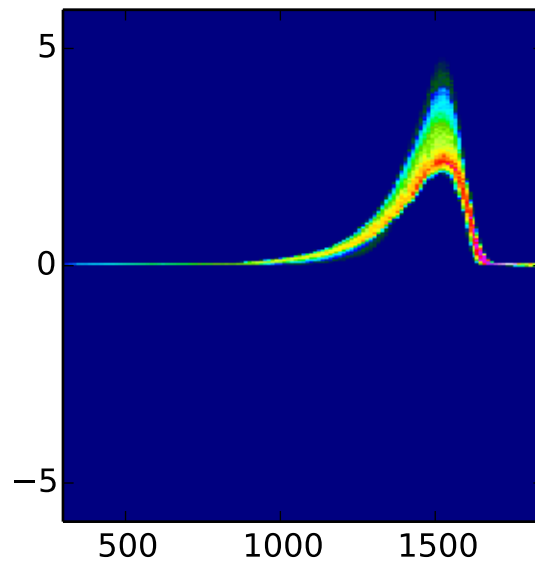
Curvature: -2800 : -2000



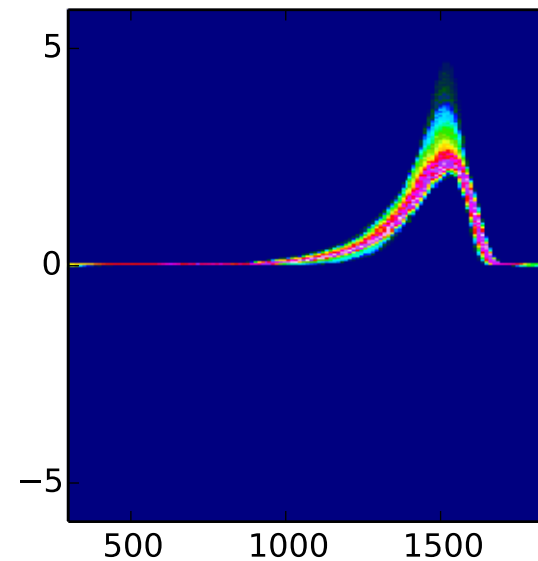
Curvature: -2000 : -1200



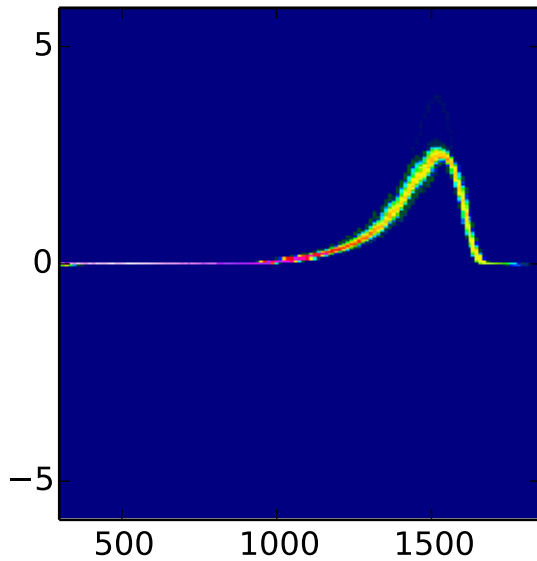
Curvature: -1200 : -400



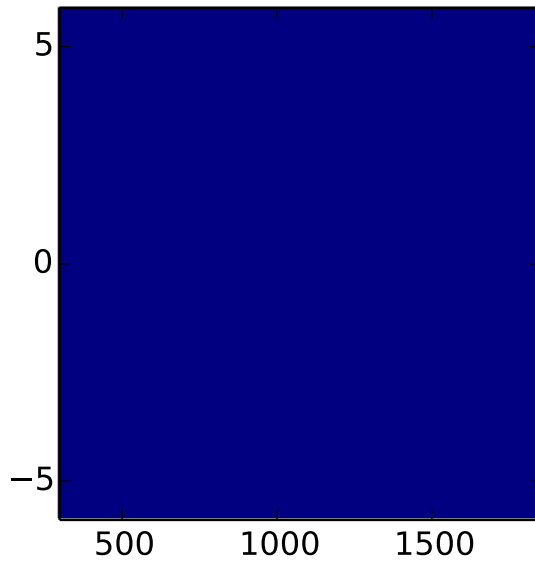
Curvature: -400 : 400



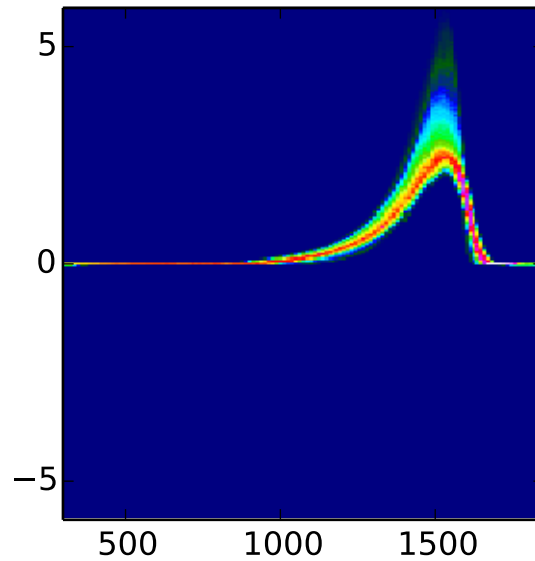
Curvature: 400 : 1200



Curvature: 1200 : 2000

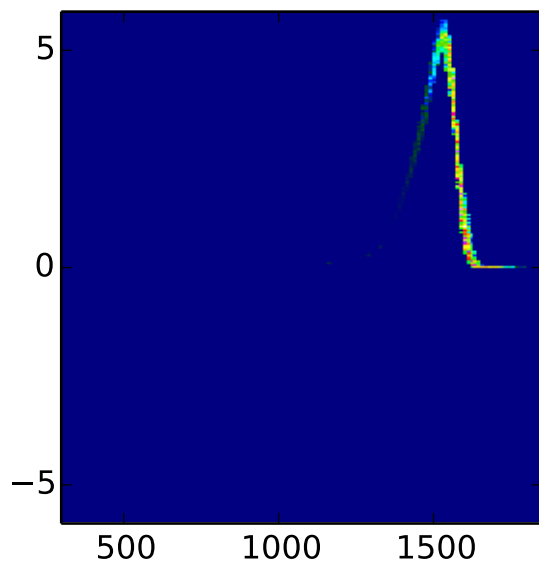


Sum

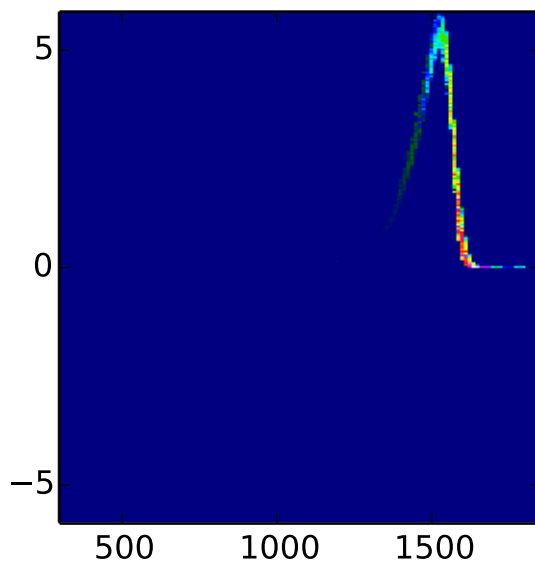


# Edge CH<sub>2</sub>CHO $\rightleftharpoons$ CO<sub>2</sub>

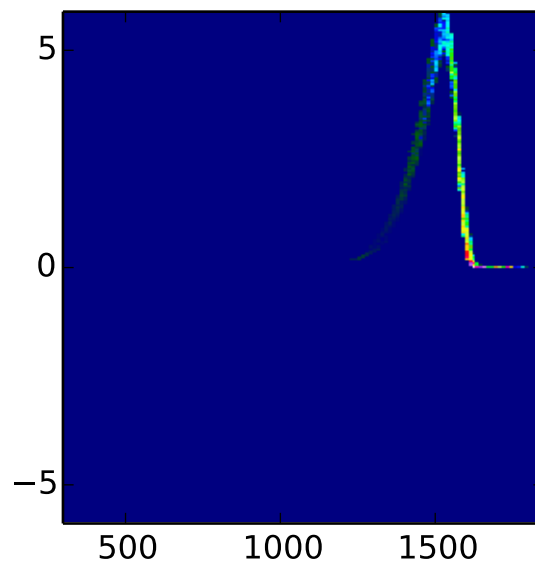
Curvature: -6000 : -5200



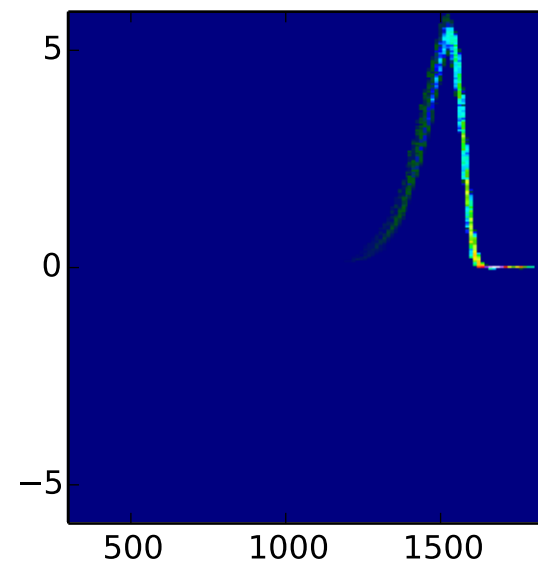
Curvature: -5200 : -4400



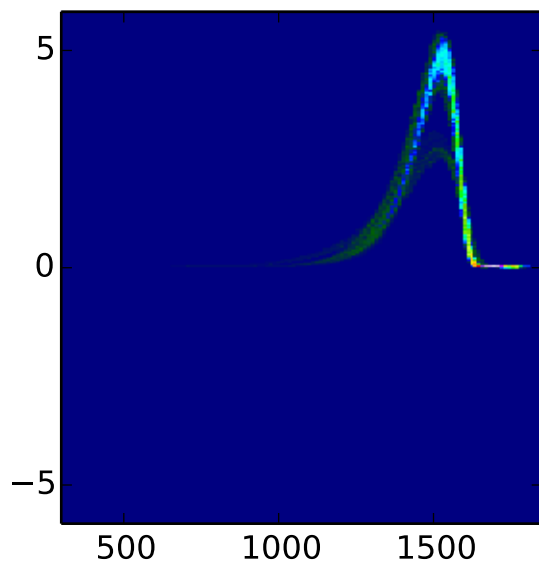
Curvature: -4400 : -3600



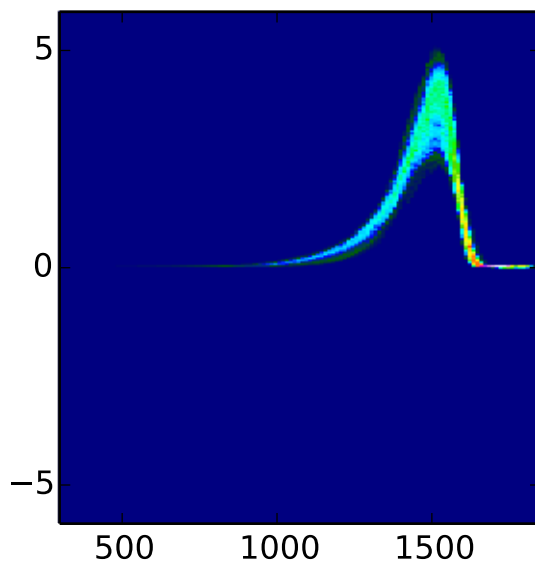
Curvature: -3600 : -2800



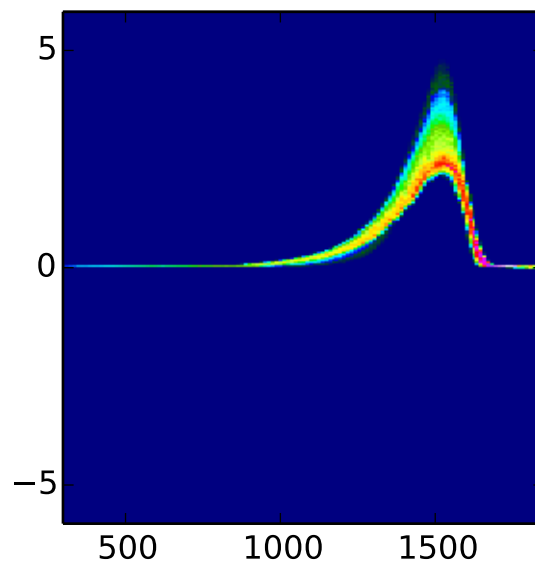
Curvature: -2800 : -2000



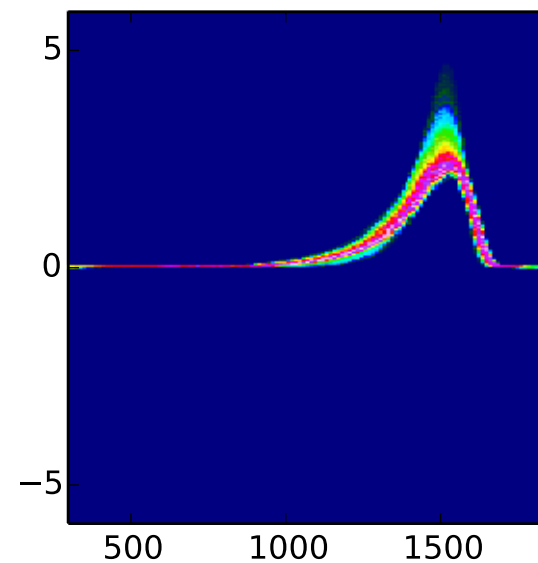
Curvature: -2000 : -1200



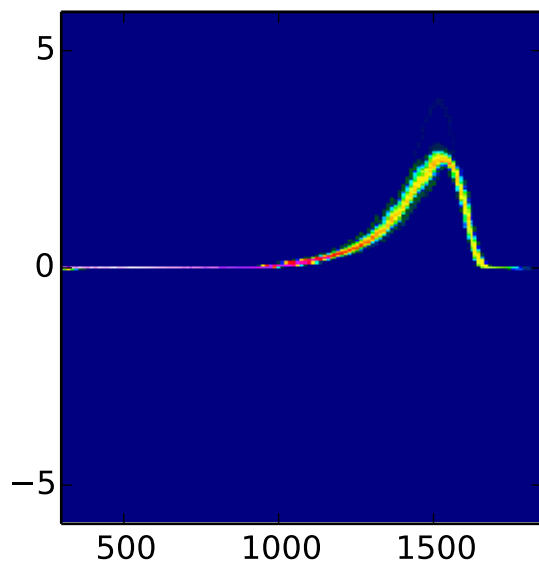
Curvature: -1200 : -400



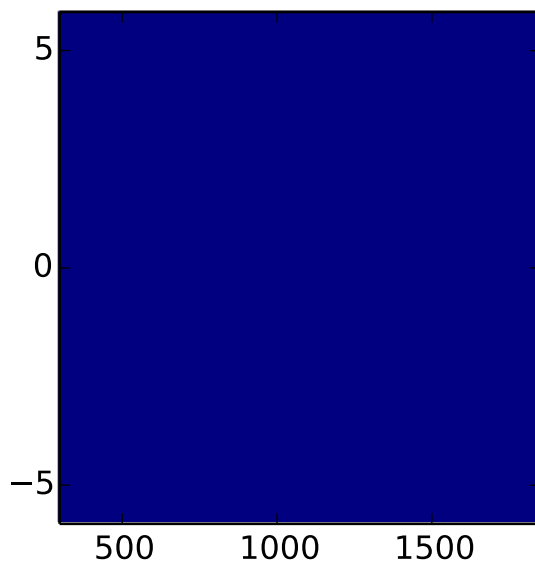
Curvature: -400 : 400



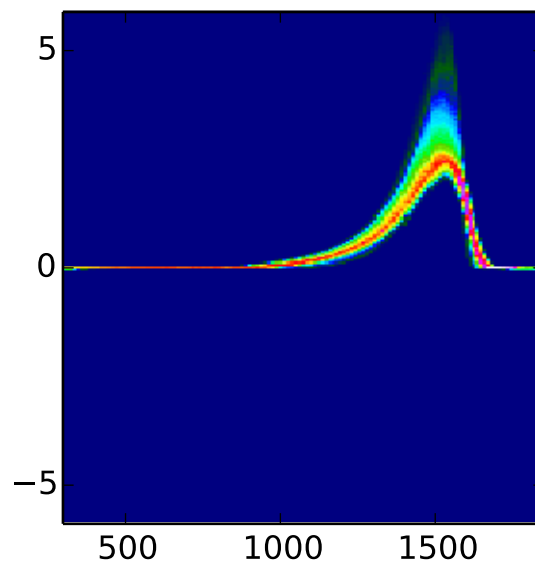
Curvature: 400 : 1200



Curvature: 1200 : 2000

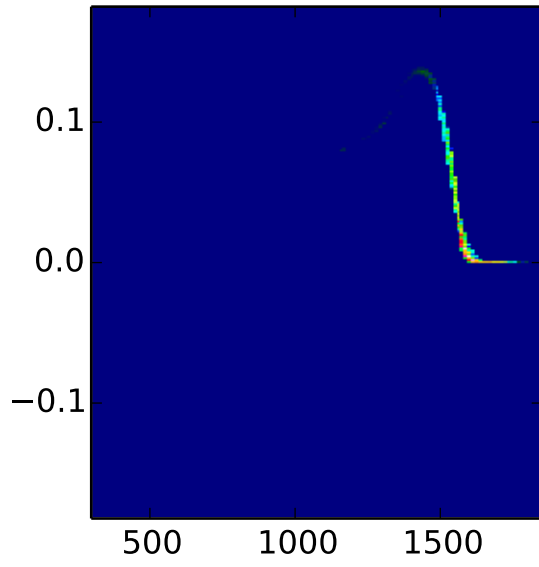


Sum

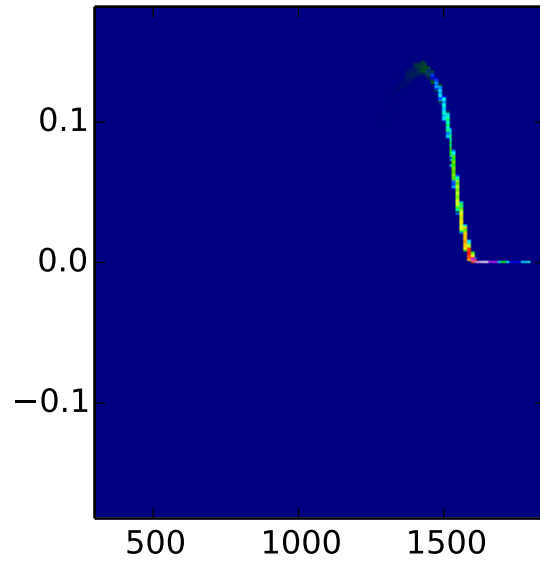


# Edge CH<sub>2</sub>CHO $\rightleftharpoons$ CH<sub>2</sub>O

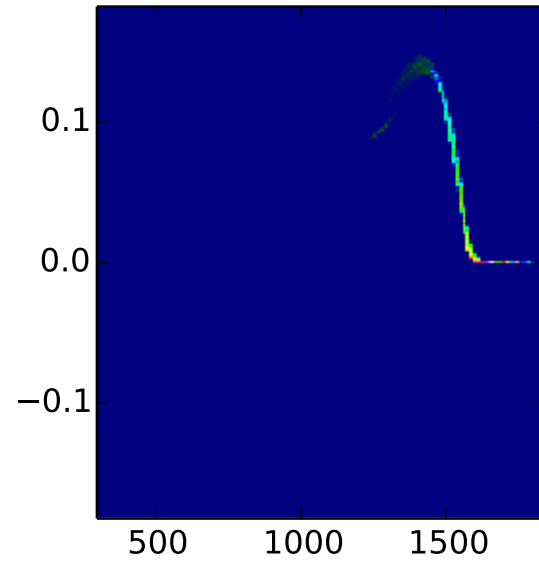
Curvature: -6000 : -5200



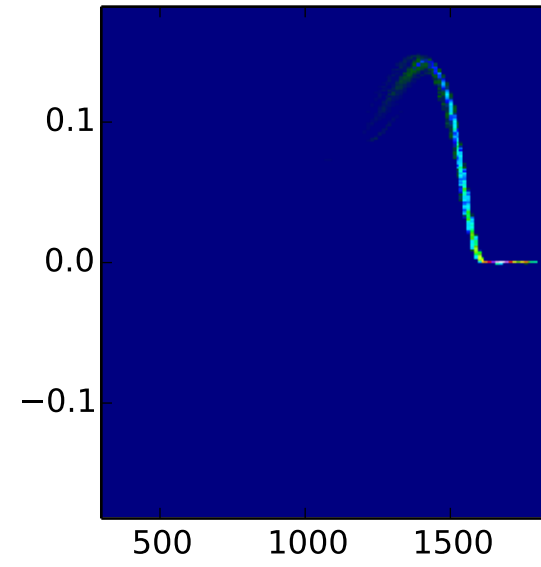
Curvature: -5200 : -4400



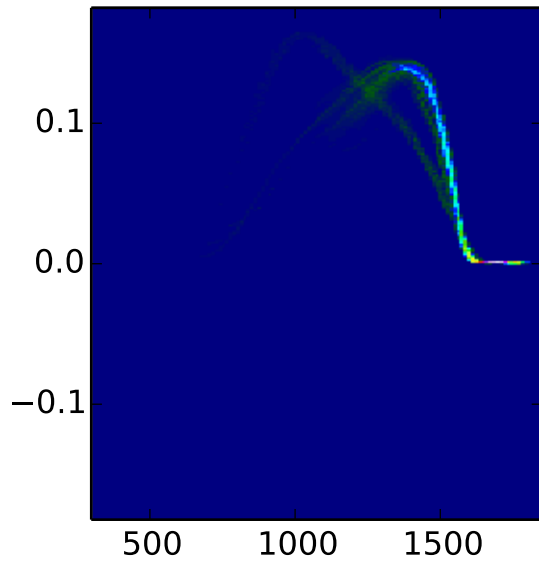
Curvature: -4400 : -3600



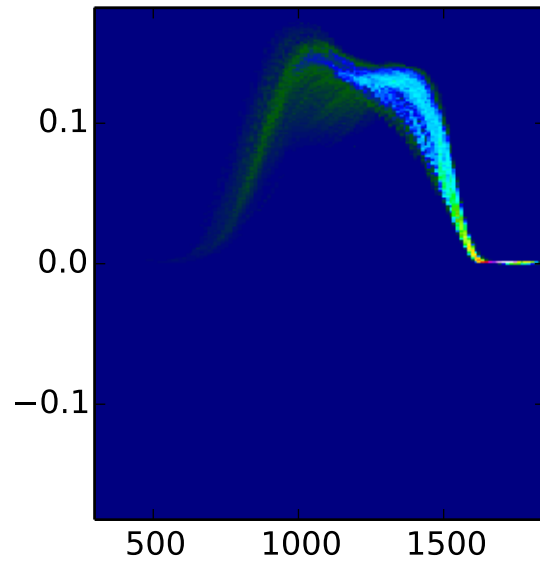
Curvature: -3600 : -2800



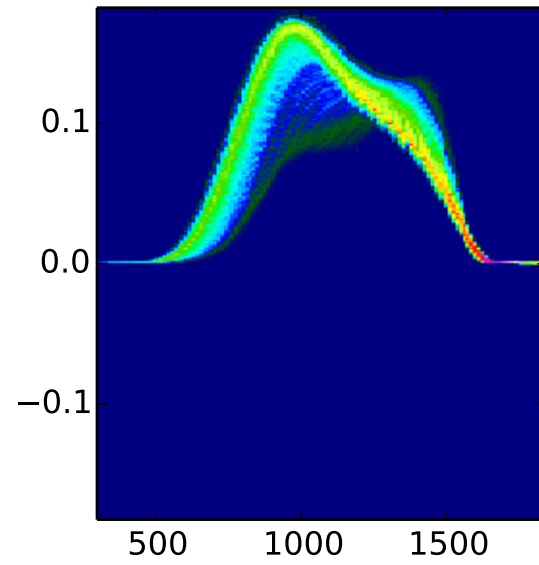
Curvature: -2800 : -2000



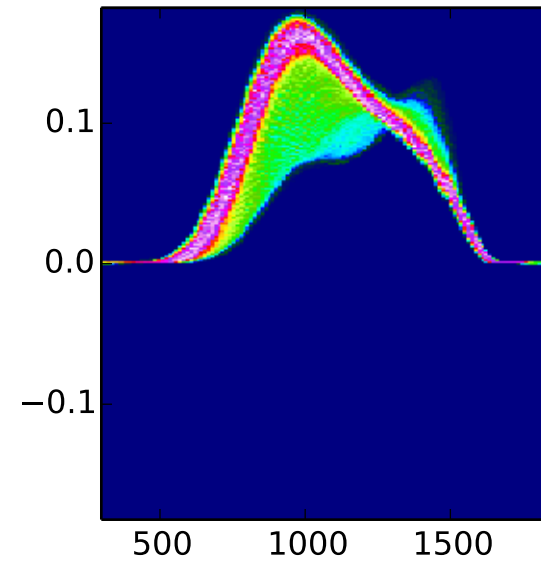
Curvature: -2000 : -1200



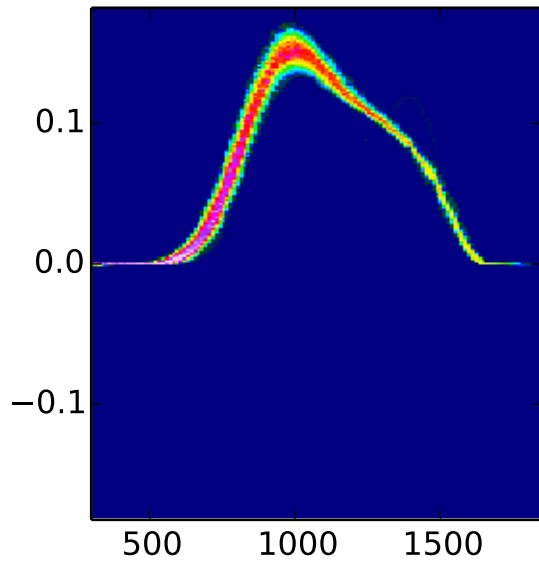
Curvature: -1200 : -400



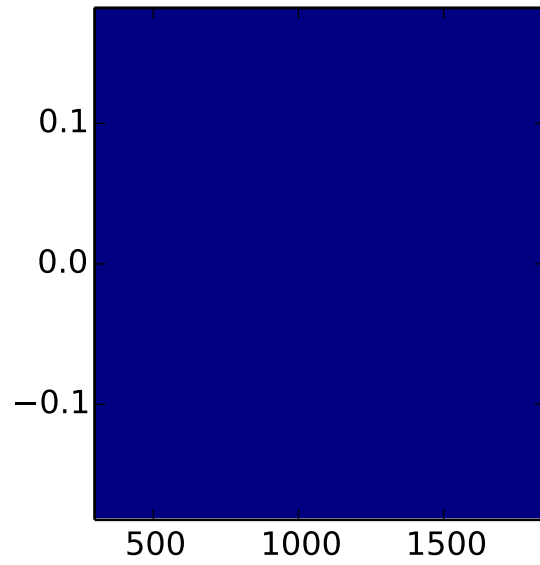
Curvature: -400 : 400



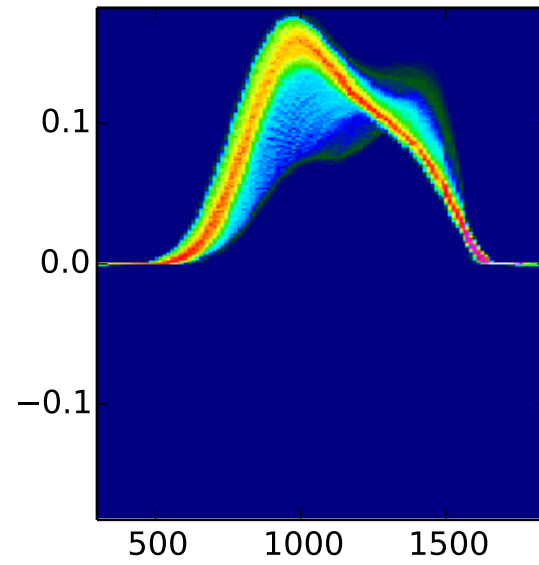
Curvature: 400 : 1200



Curvature: 1200 : 2000

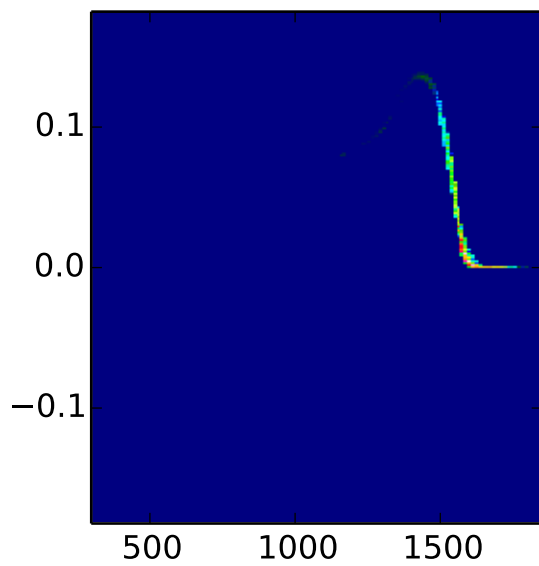


Sum

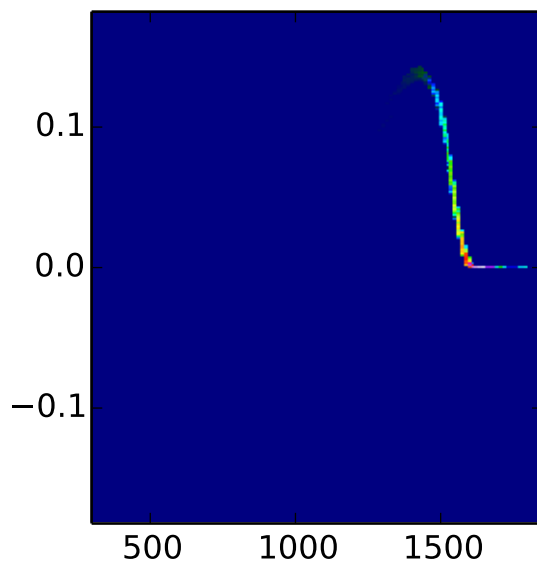


# Edge CH<sub>2</sub>CHO $\rightleftharpoons$ CO

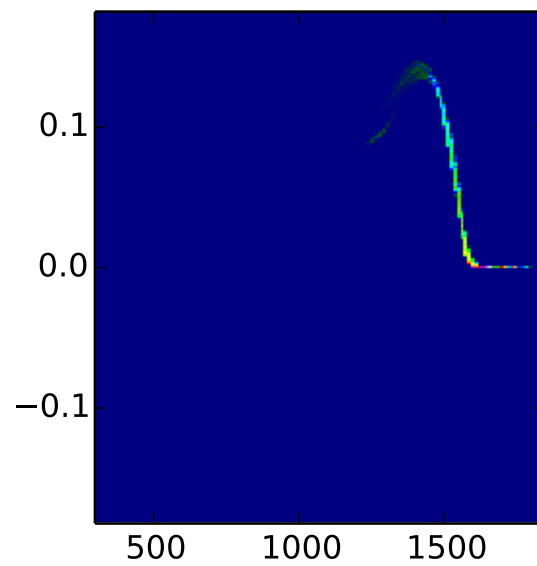
Curvature: -6000 : -5200



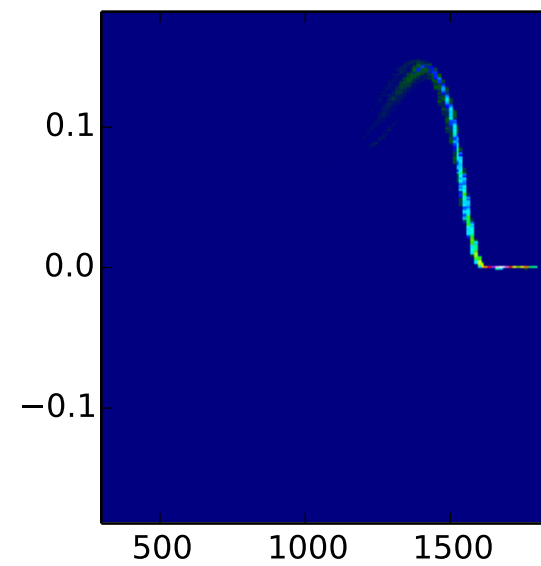
Curvature: -5200 : -4400



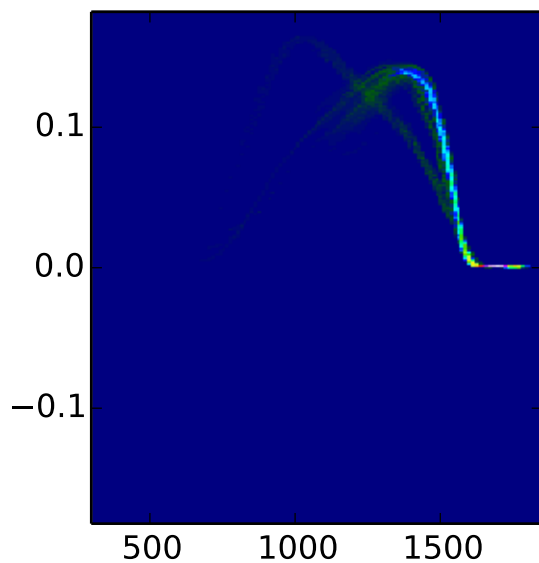
Curvature: -4400 : -3600



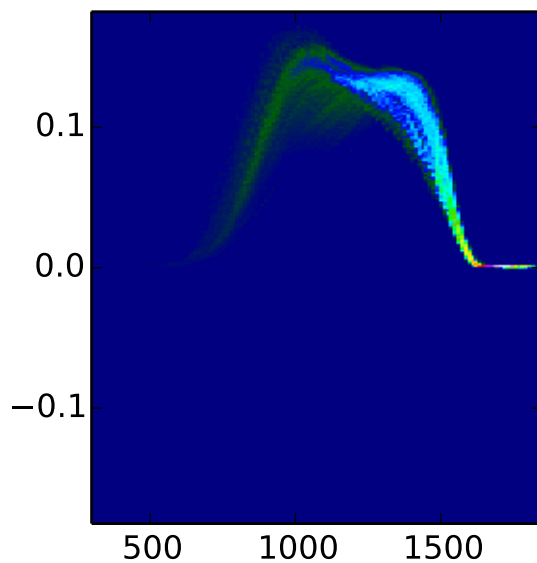
Curvature: -3600 : -2800



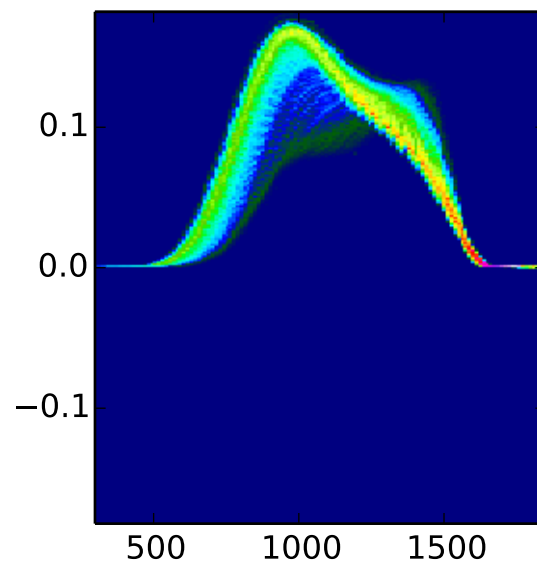
Curvature: -2800 : -2000



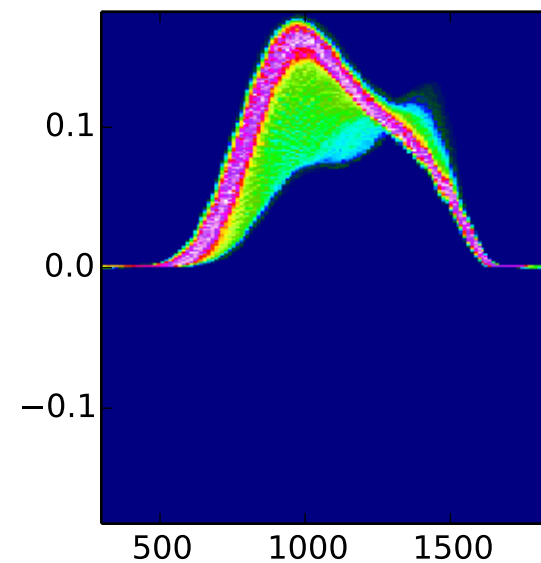
Curvature: -2000 : -1200



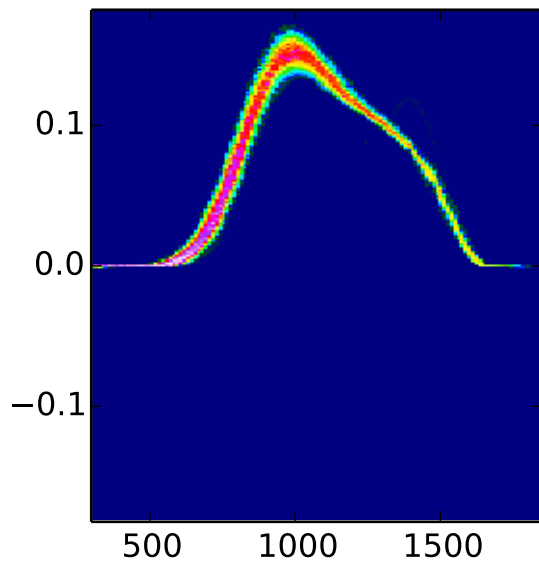
Curvature: -1200 : -400



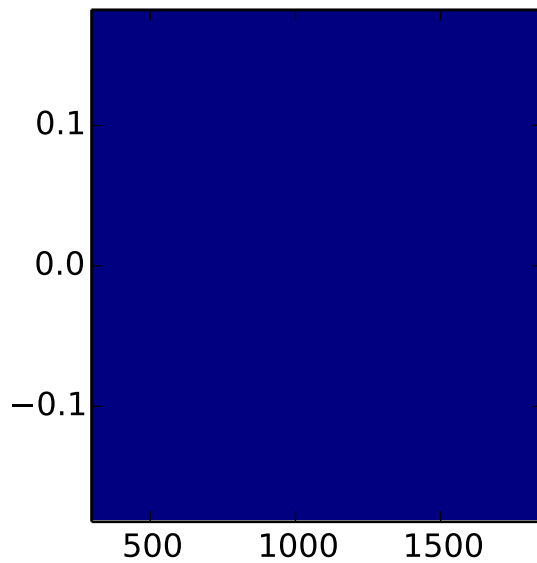
Curvature: -400 : 400



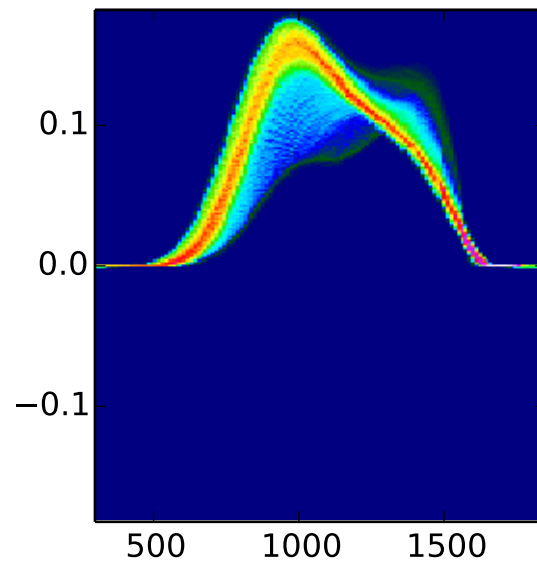
Curvature: 400 : 1200



Curvature: 1200 : 2000

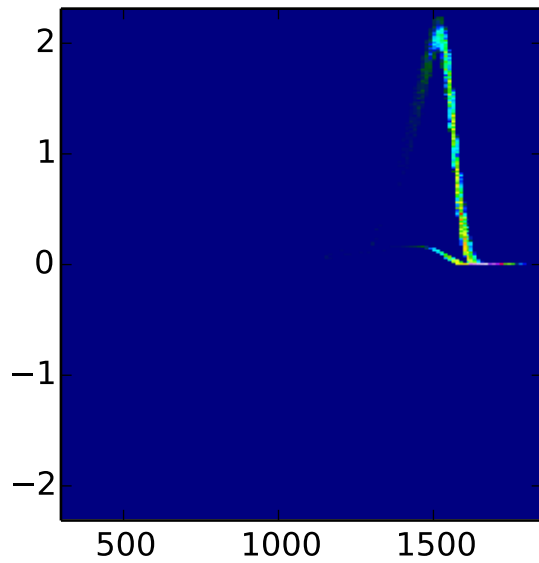


Sum

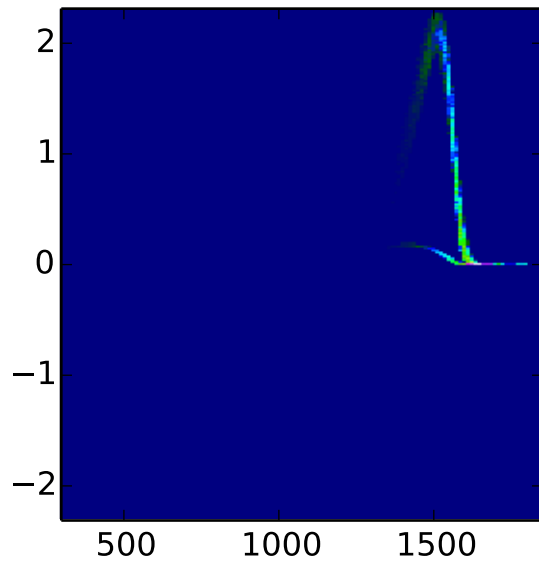


# Edge CH<sub>2</sub>CHO $\rightleftharpoons$ HCO

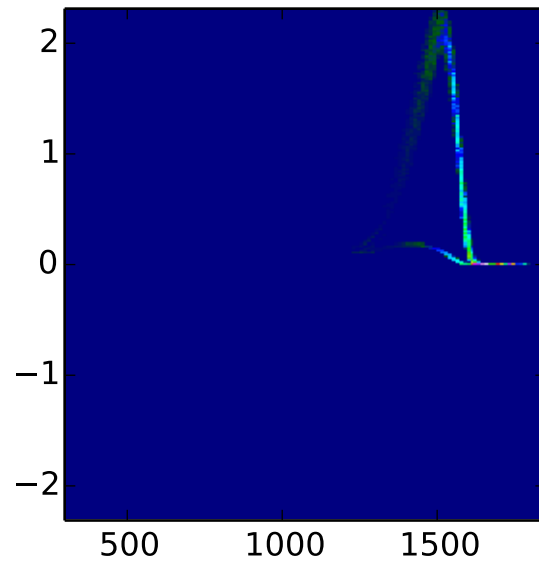
Curvature: -6000 : -5200



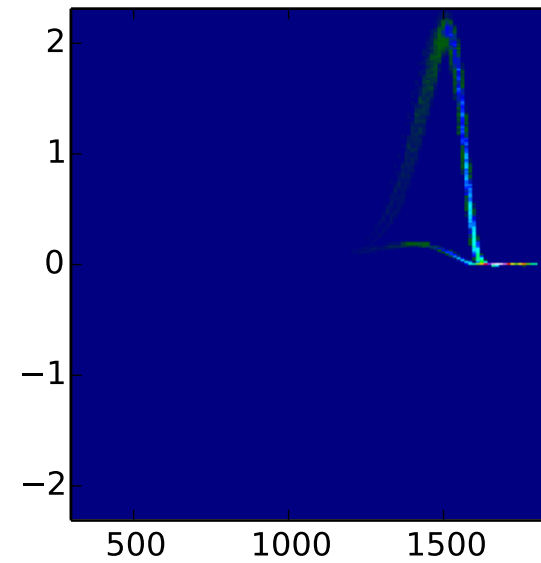
Curvature: -5200 : -4400



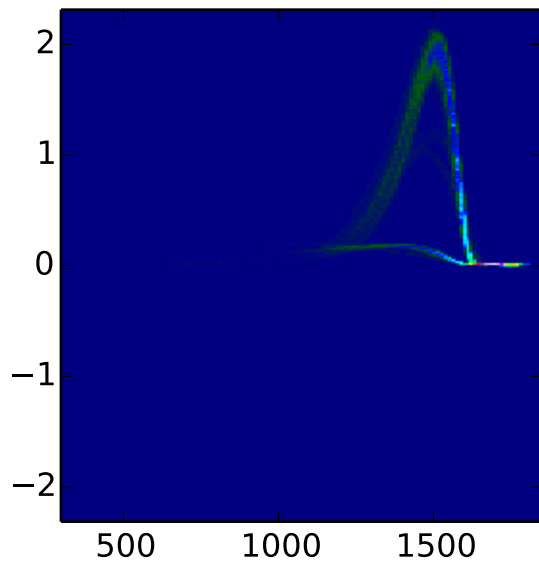
Curvature: -4400 : -3600



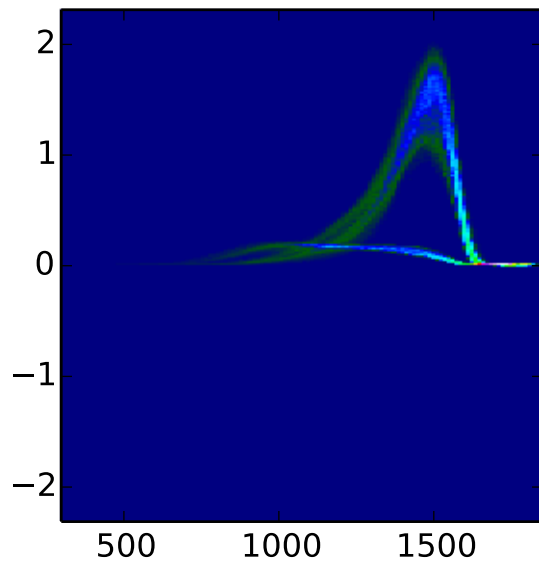
Curvature: -3600 : -2800



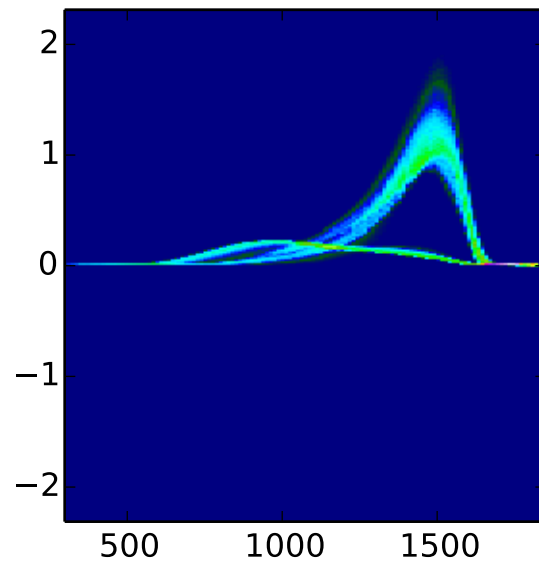
Curvature: -2800 : -2000



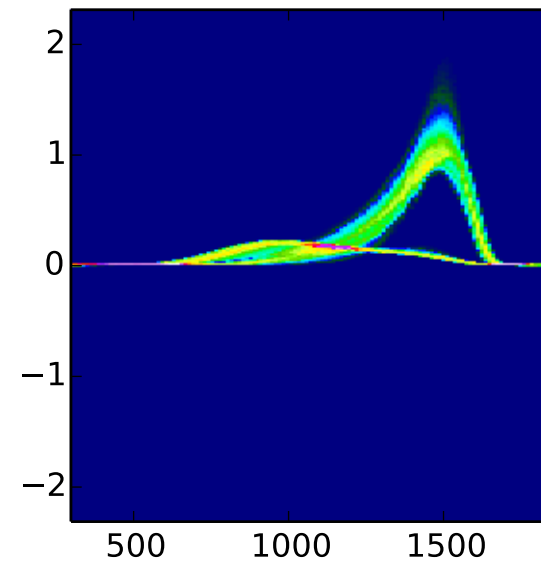
Curvature: -2000 : -1200



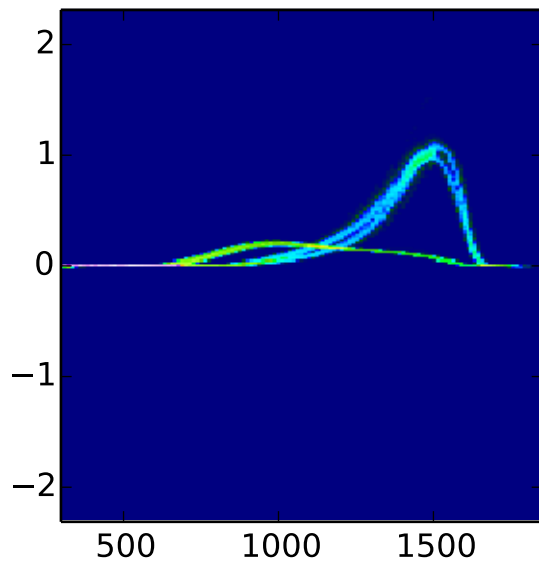
Curvature: -1200 : -400



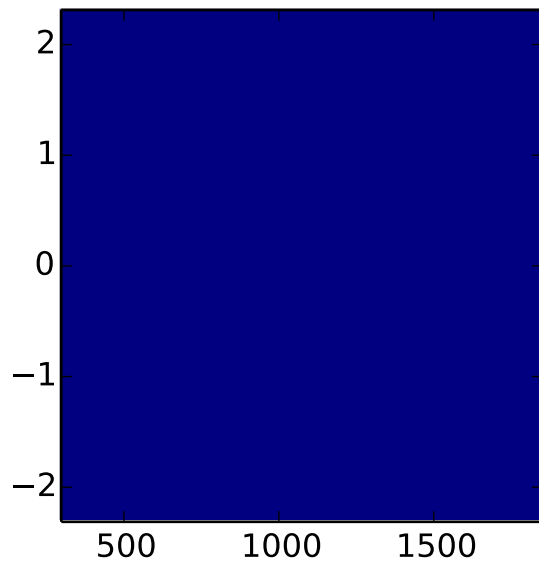
Curvature: -400 : 400



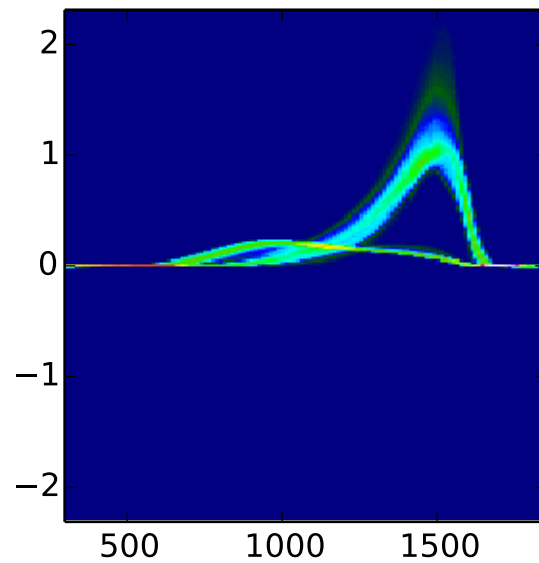
Curvature: 400 : 1200



Curvature: 1200 : 2000

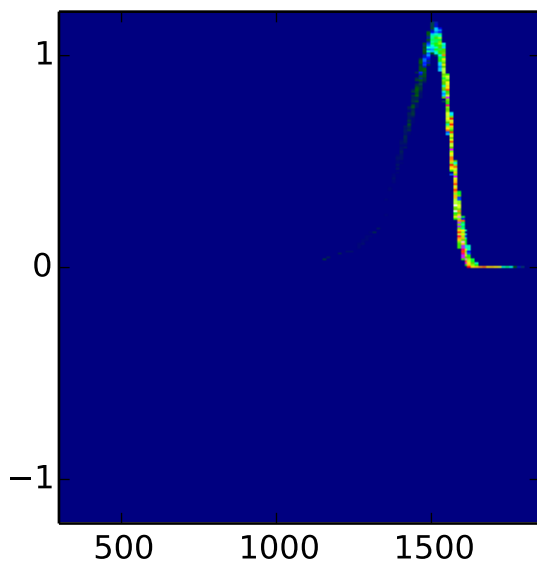


Sum

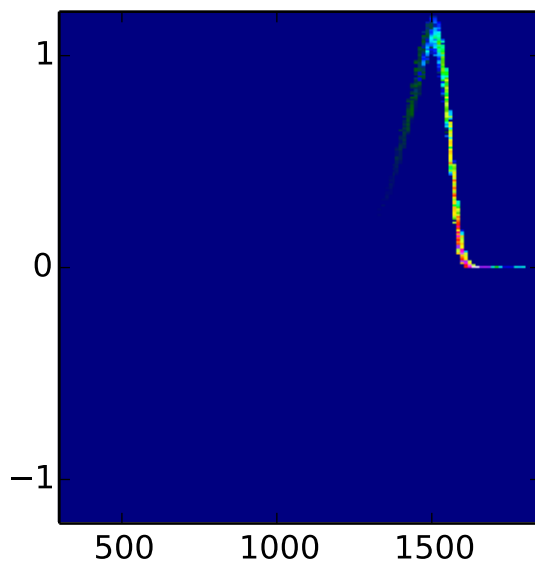


# Edge CH<sub>2</sub>CHO $\rightleftharpoons$ CH<sub>3</sub>

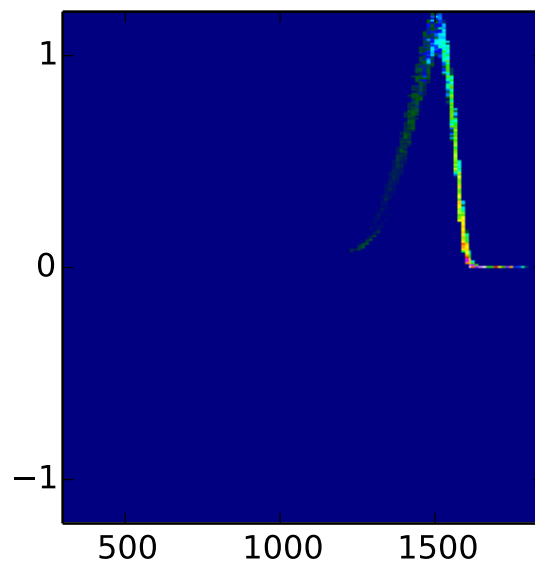
Curvature: -6000 : -5200



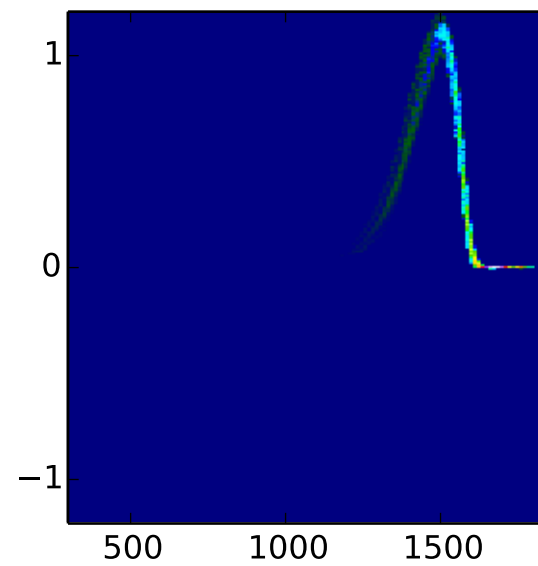
Curvature: -5200 : -4400



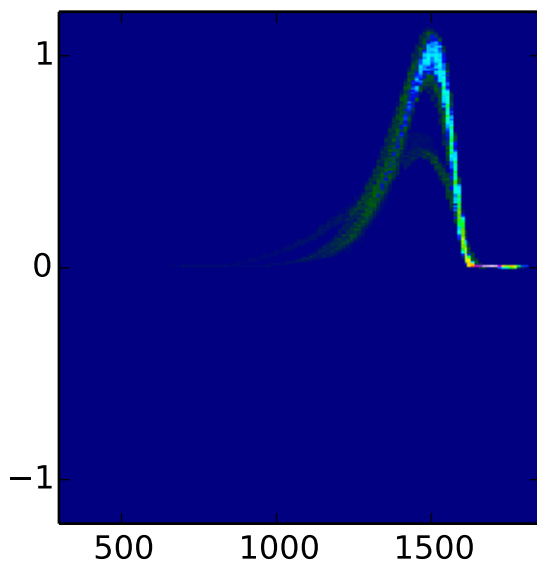
Curvature: -4400 : -3600



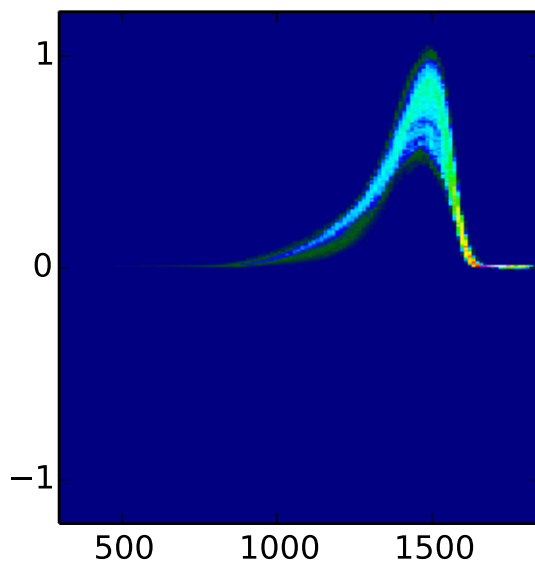
Curvature: -3600 : -2800



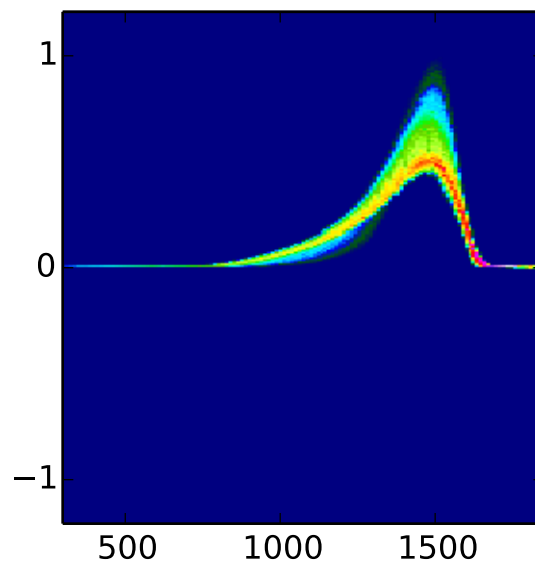
Curvature: -2800 : -2000



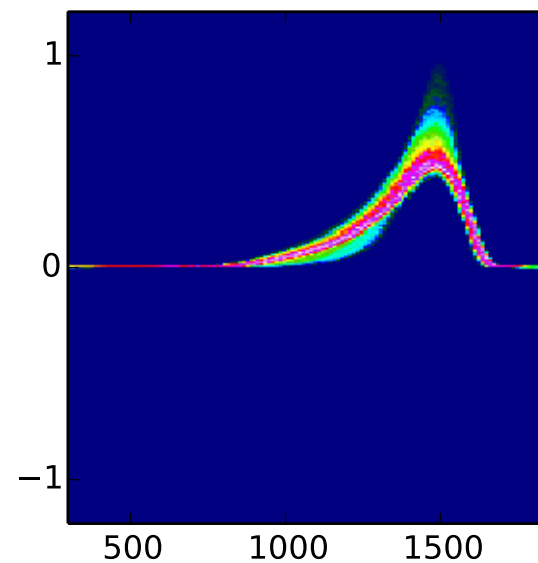
Curvature: -2000 : -1200



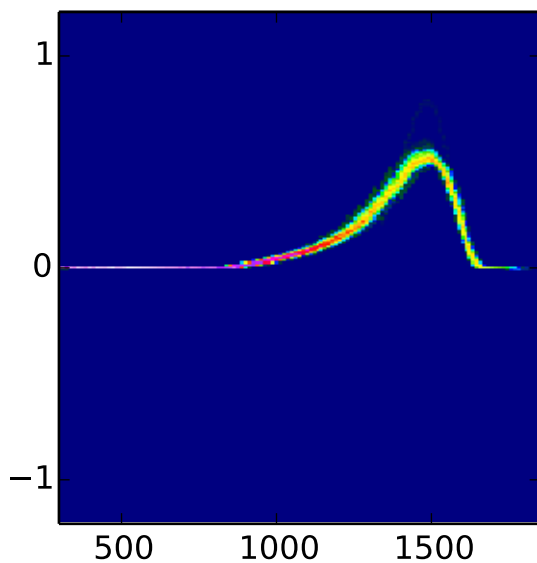
Curvature: -1200 : -400



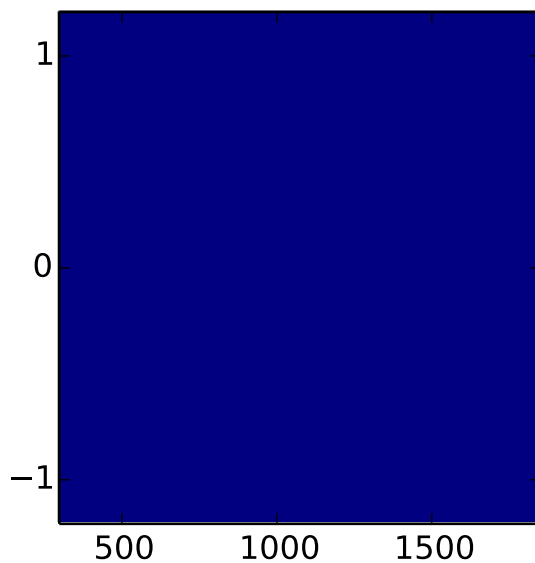
Curvature: -400 : 400



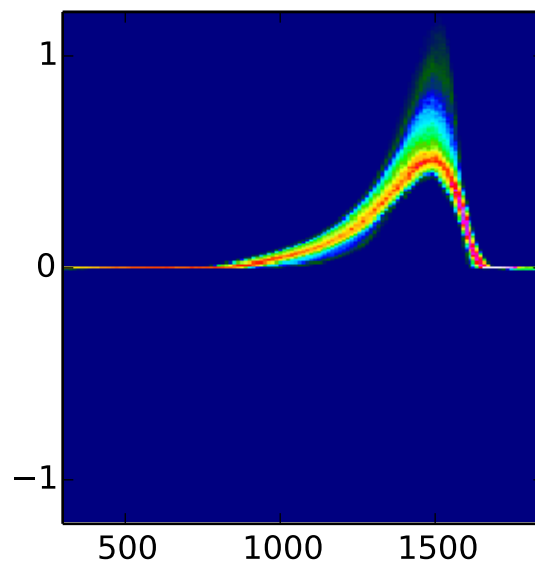
Curvature: 400 : 1200



Curvature: 1200 : 2000

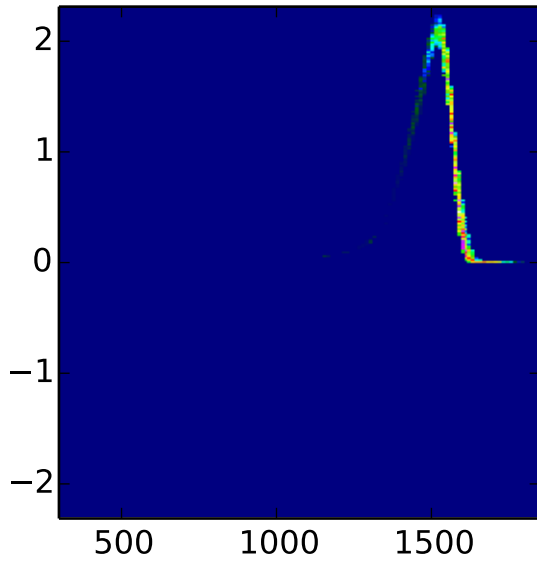


Sum

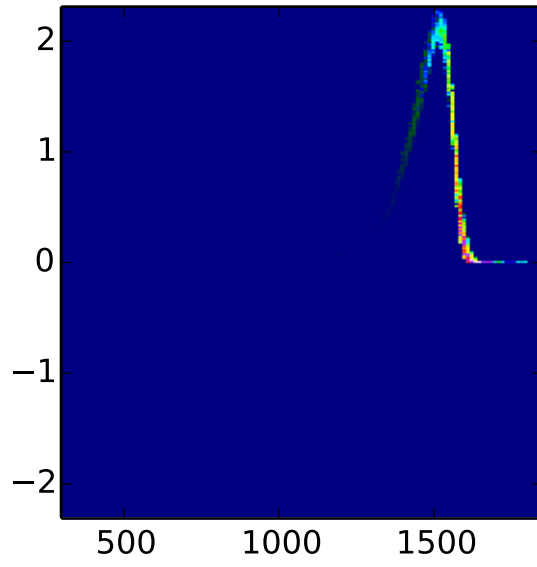


# Edge $\text{CH}_2\text{CHO} \rightleftharpoons \text{CH}_2\text{OH}$

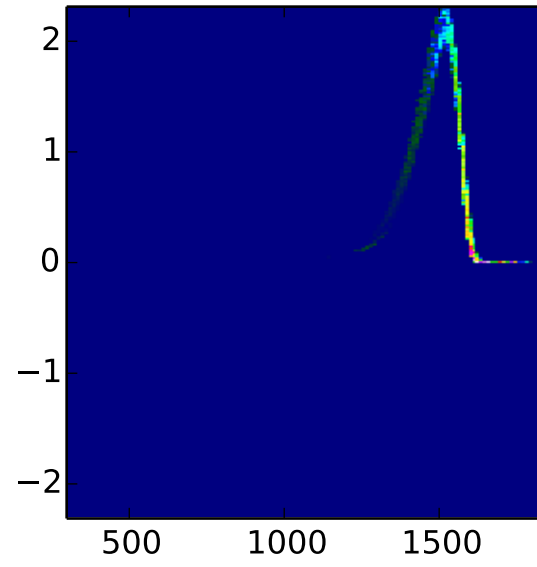
Curvature: -6000 : -5200



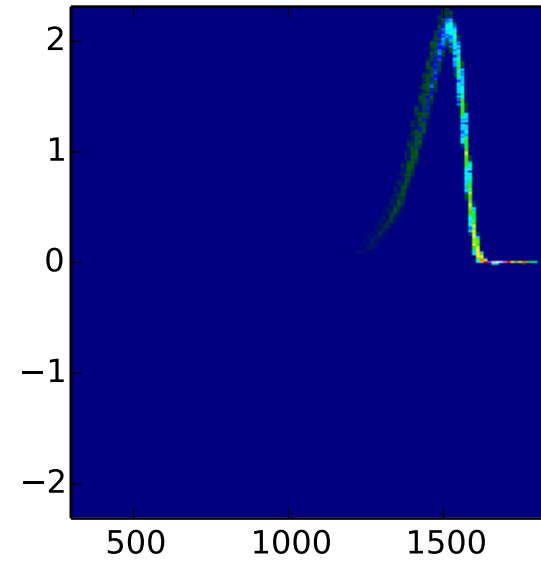
Curvature: -5200 : -4400



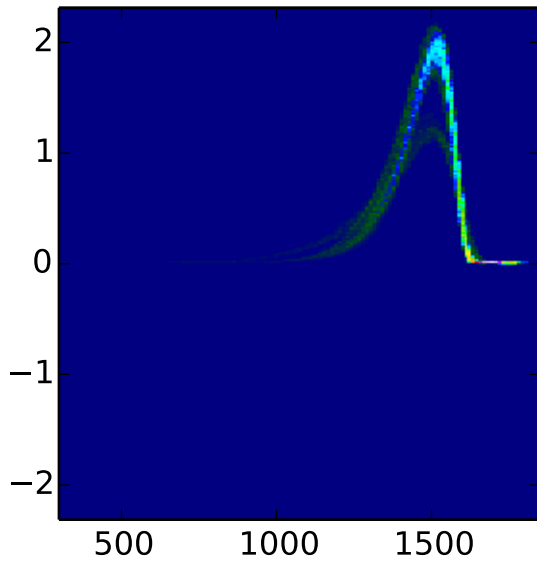
Curvature: -4400 : -3600



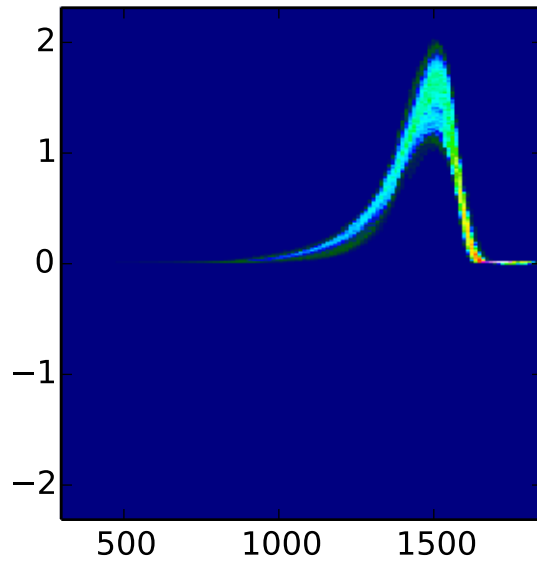
Curvature: -3600 : -2800



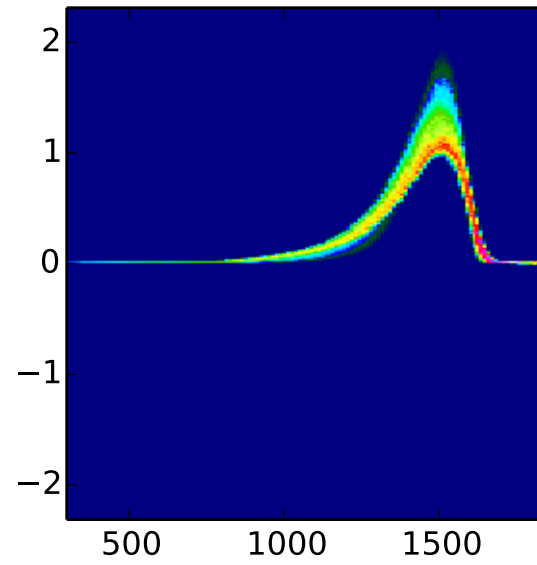
Curvature: -2800 : -2000



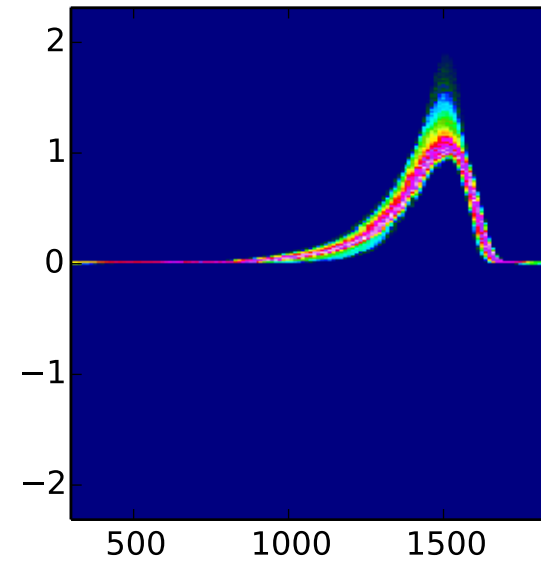
Curvature: -2000 : -1200



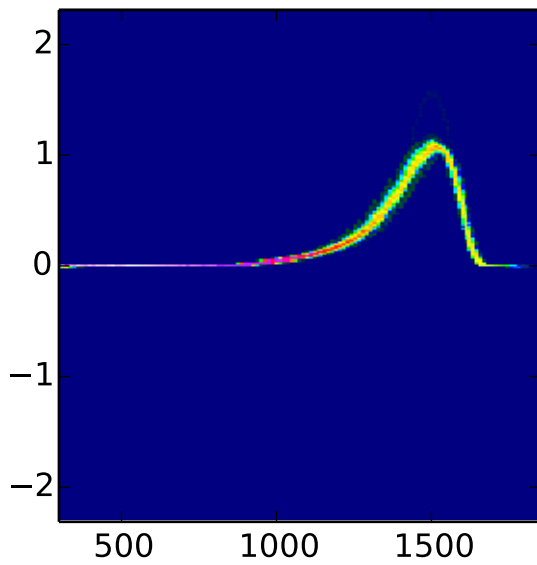
Curvature: -1200 : -400



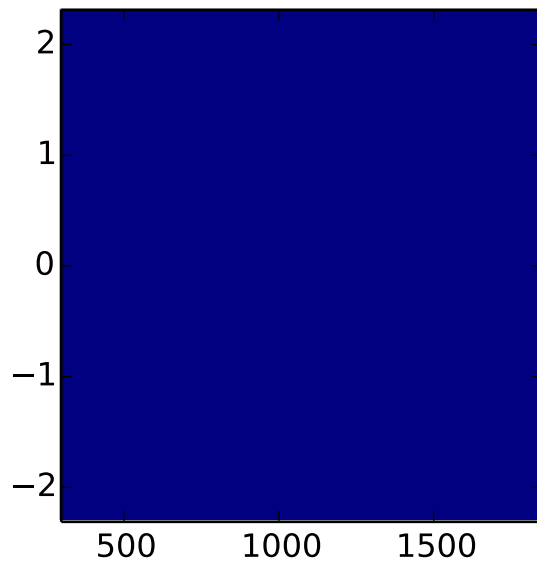
Curvature: -400 : 400



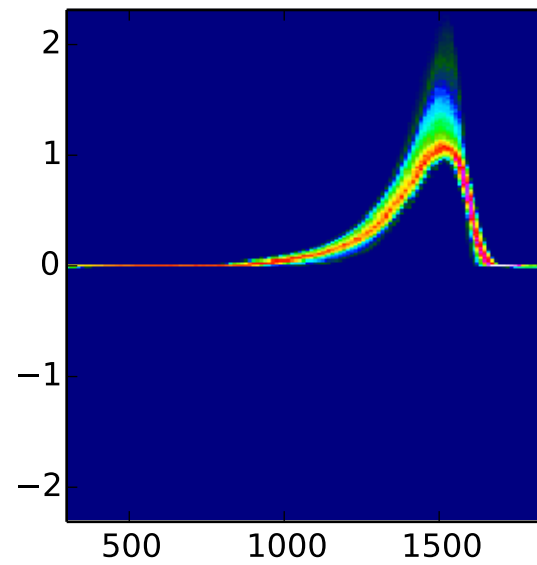
Curvature: 400 : 1200



Curvature: 1200 : 2000



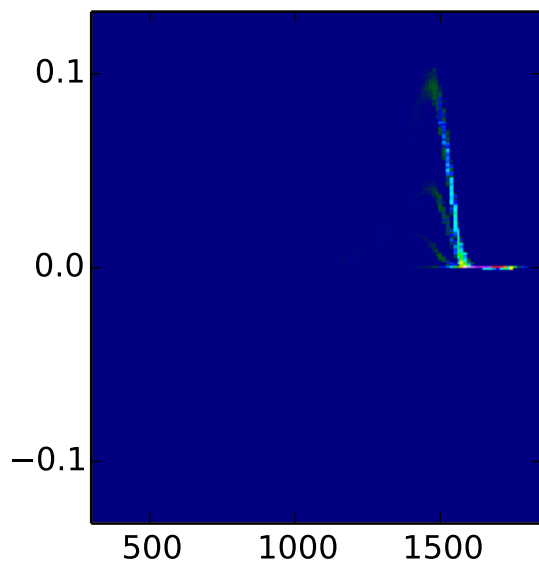
Sum



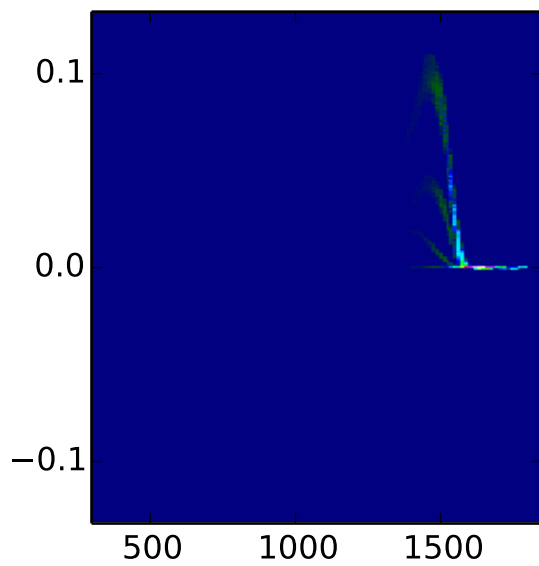


# Edge C3H7 $\rightleftharpoons$ C2H5

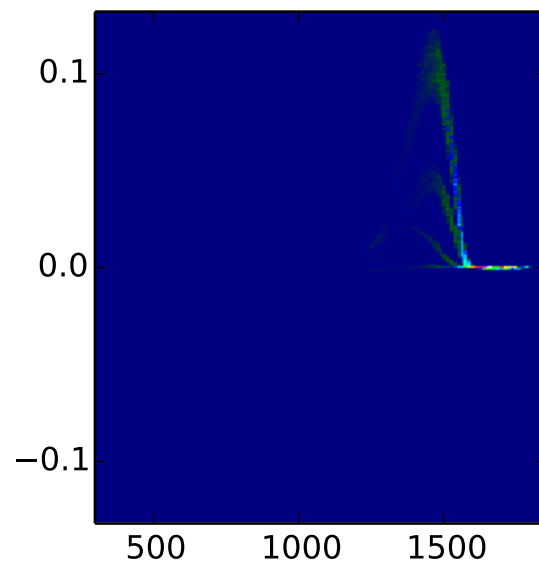
Curvature: -6000 : -5200



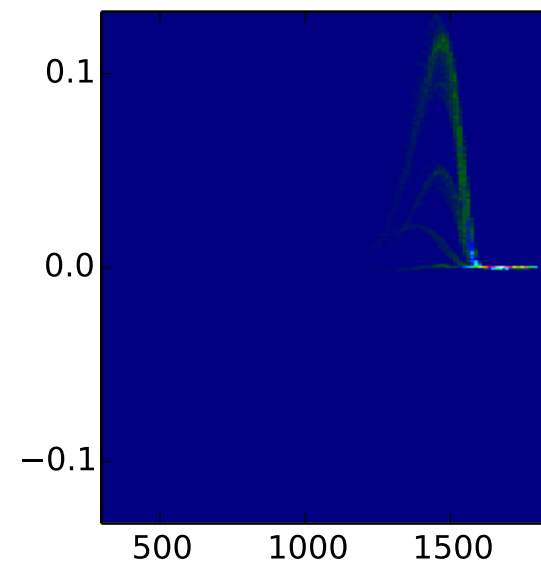
Curvature: -5200 : -4400



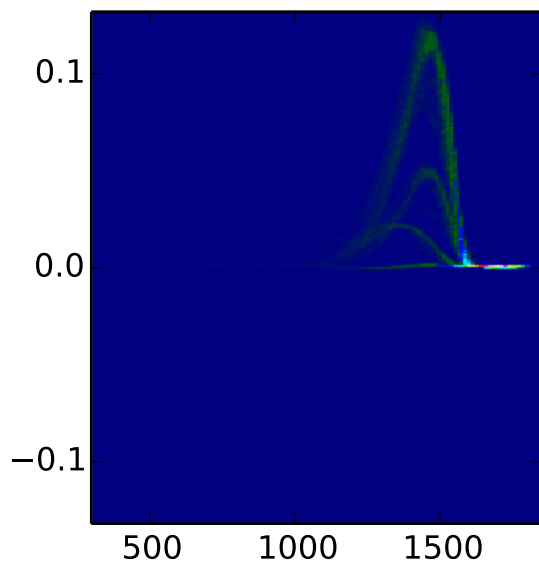
Curvature: -4400 : -3600



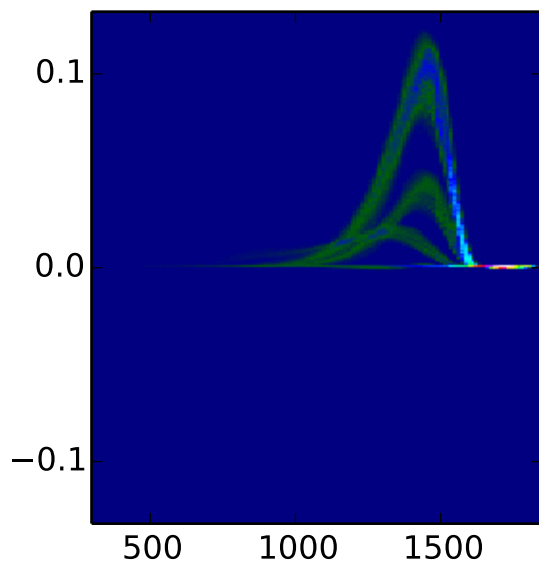
Curvature: -3600 : -2800



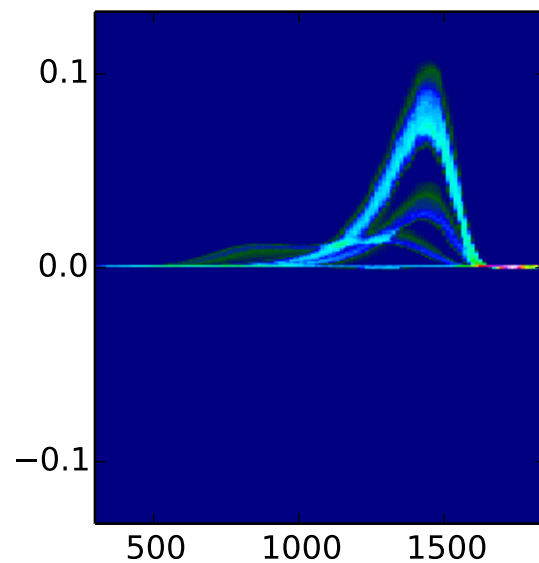
Curvature: -2800 : -2000



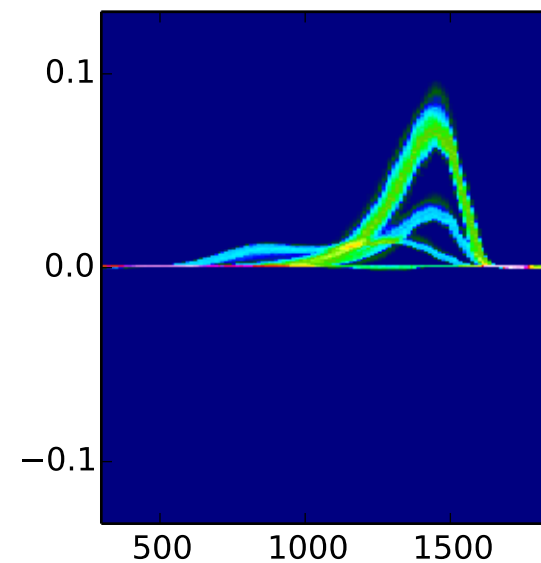
Curvature: -2000 : -1200



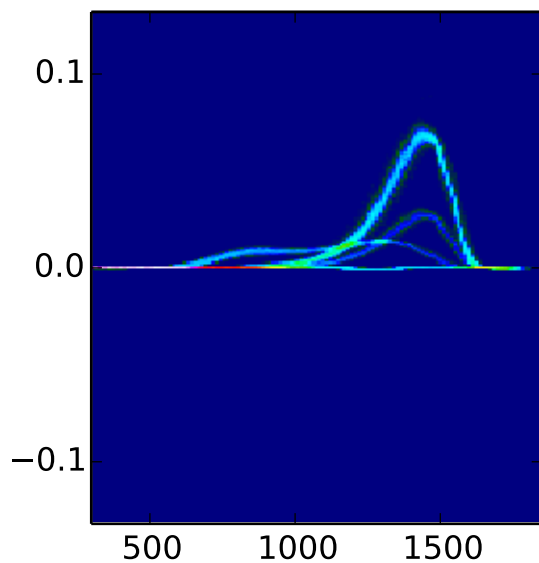
Curvature: -1200 : -400



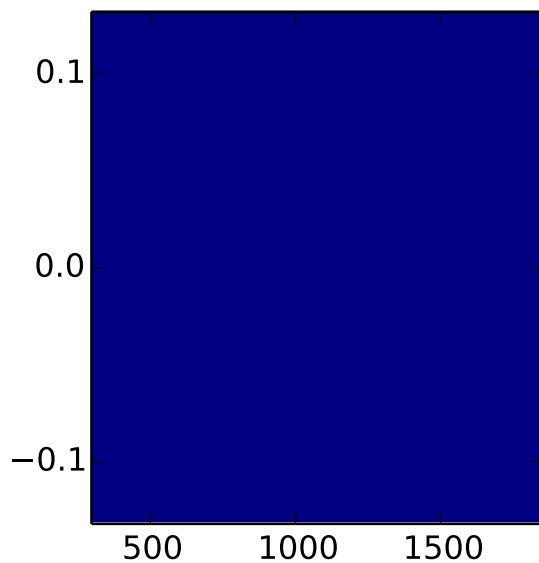
Curvature: -400 : 400



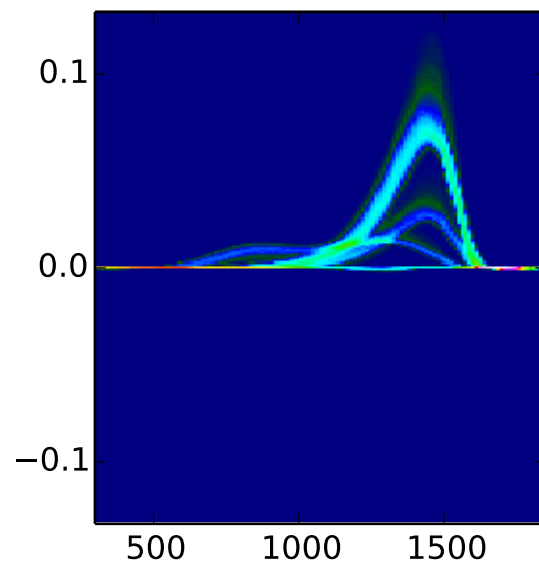
Curvature: 400 : 1200



Curvature: 1200 : 2000

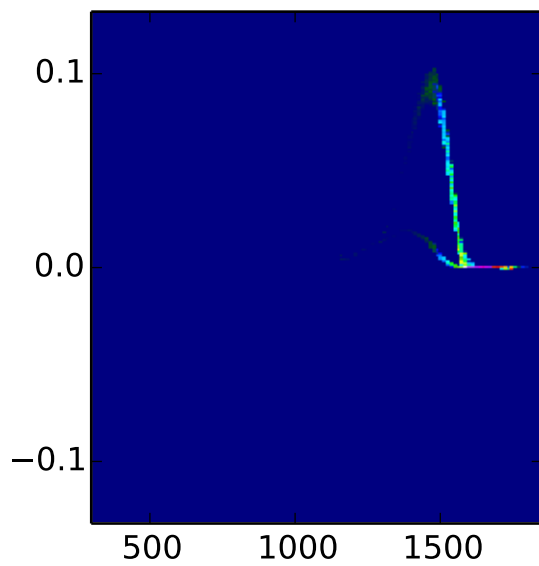


Sum

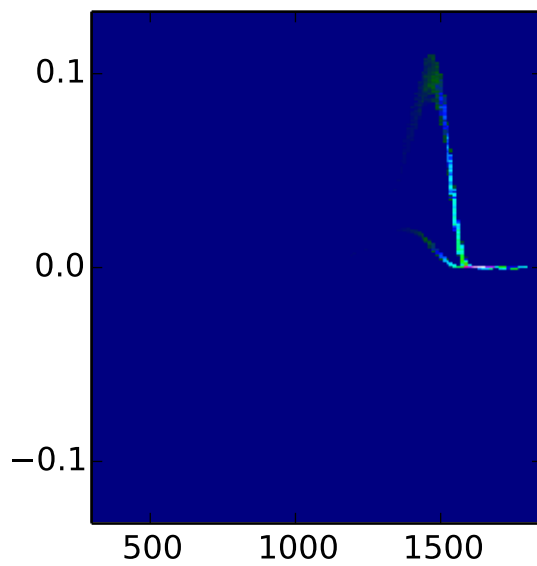


# Edge C3H7 $\rightleftharpoons$ CH2O

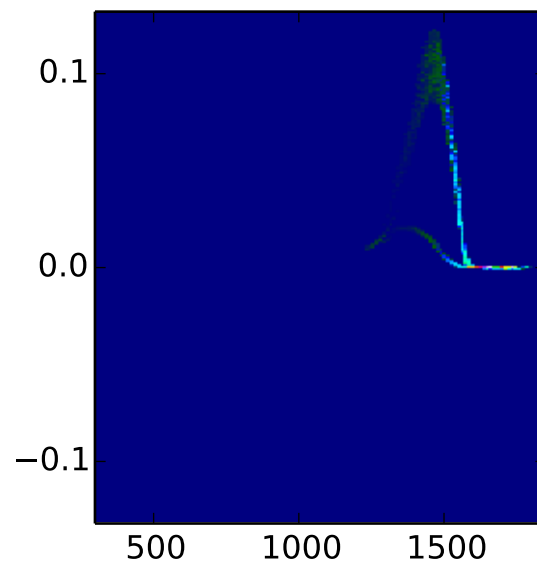
Curvature: -6000 : -5200



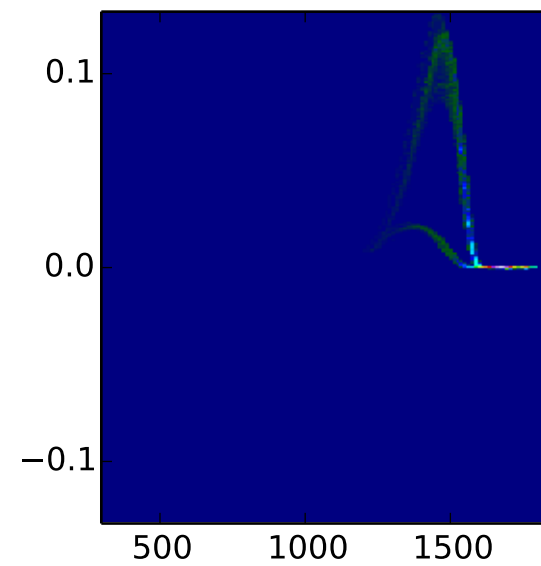
Curvature: -5200 : -4400



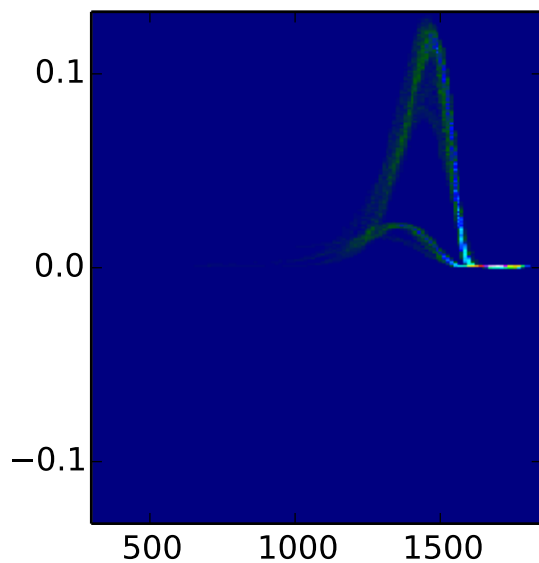
Curvature: -4400 : -3600



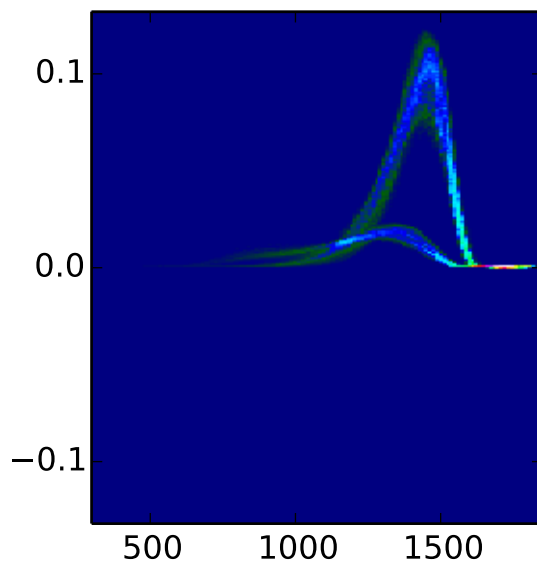
Curvature: -3600 : -2800



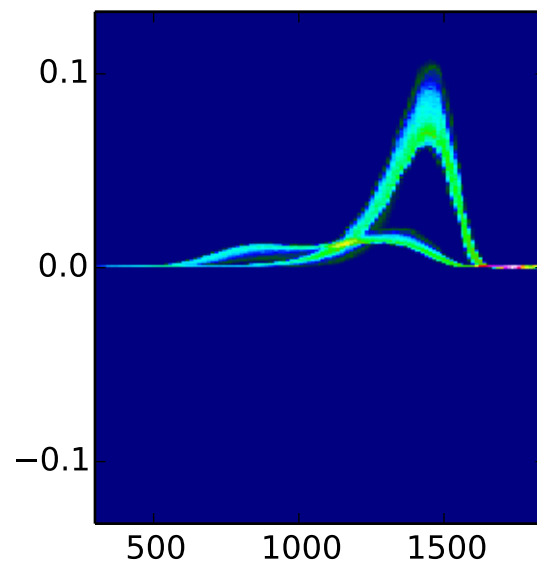
Curvature: -2800 : -2000



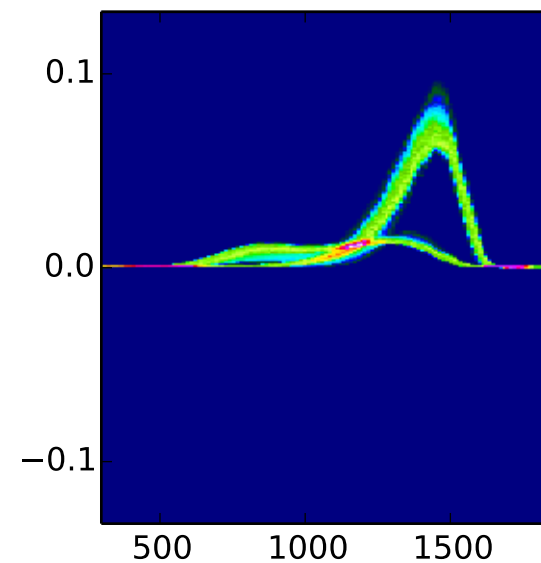
Curvature: -2000 : -1200



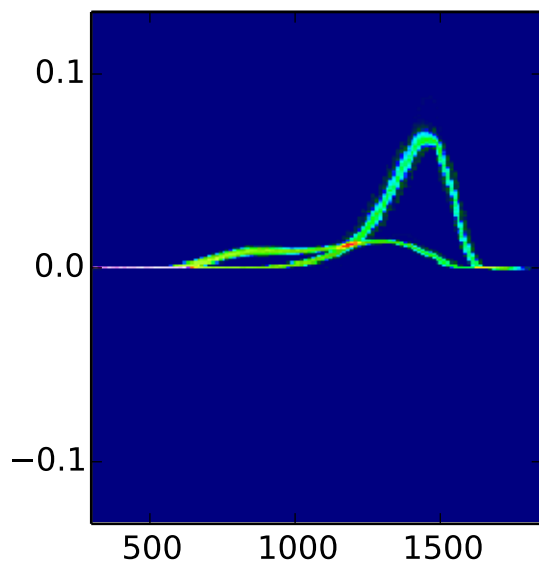
Curvature: -1200 : -400



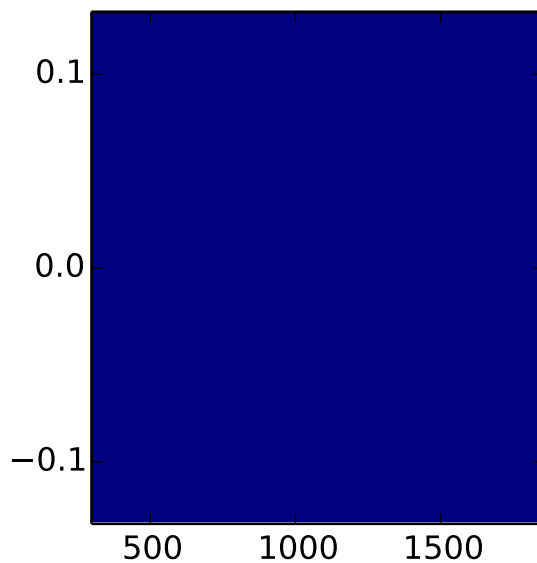
Curvature: -400 : 400



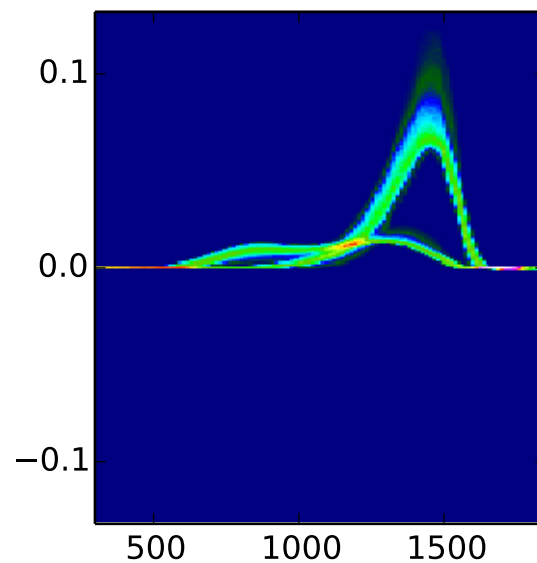
Curvature: 400 : 1200



Curvature: 1200 : 2000



Sum



# Edge C3H7 $\rightleftharpoons$ CH2OH

