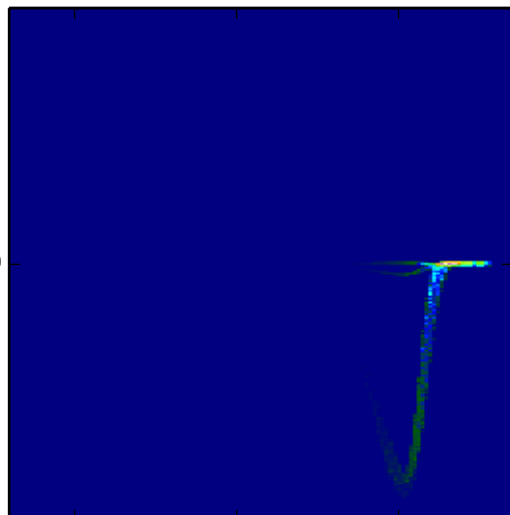
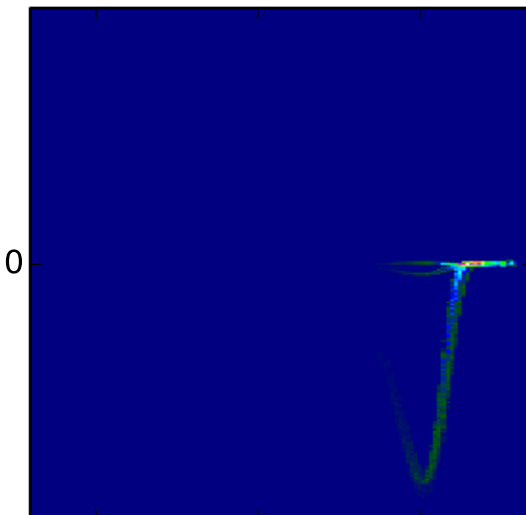


# Edge CH2 $\rightleftharpoons$ CH3

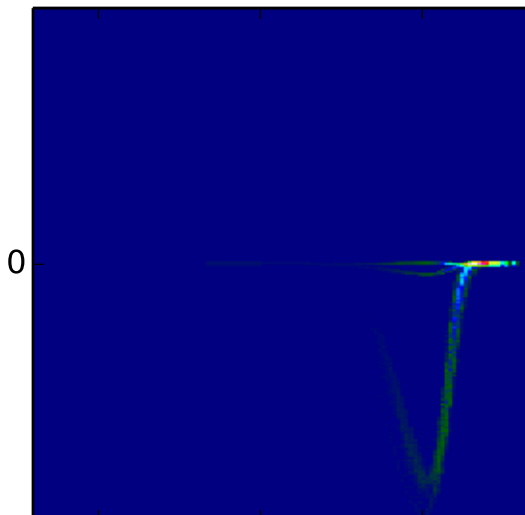
Curvature: -6000 : -5200



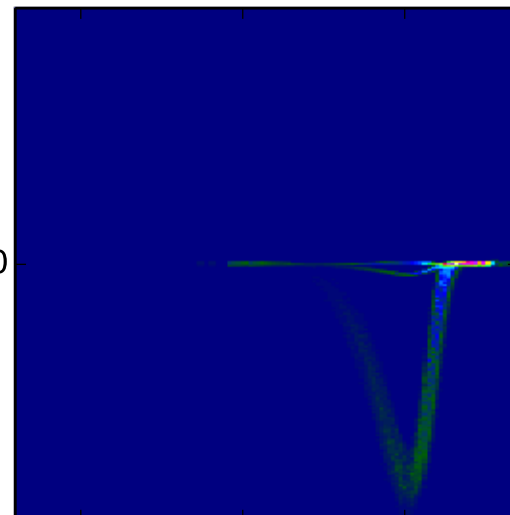
Curvature: -5200 : -4400



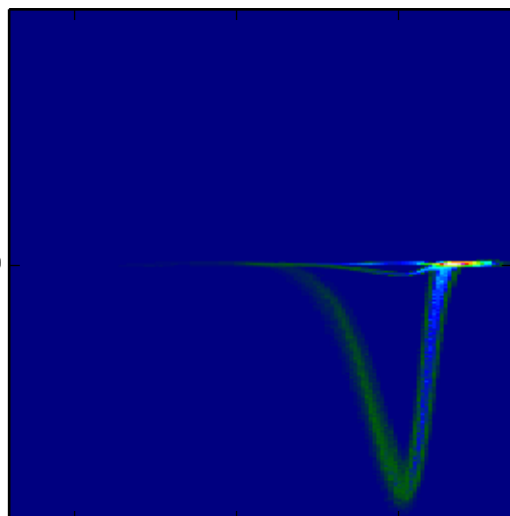
Curvature: -4400 : -3600



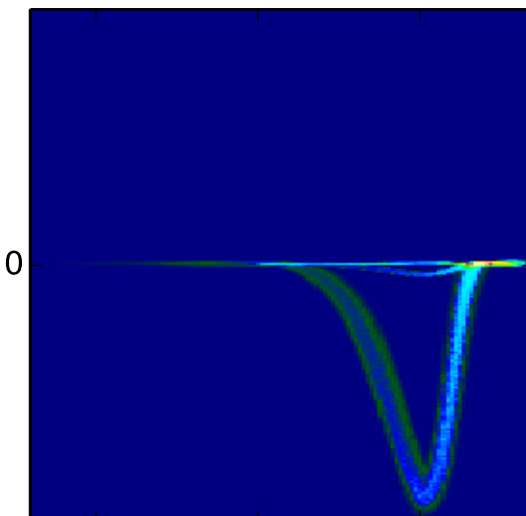
Curvature: -3600 : -2800



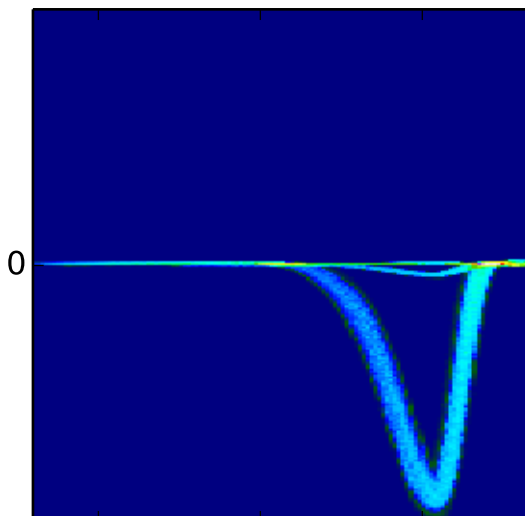
Curvature: -2800 : -2000



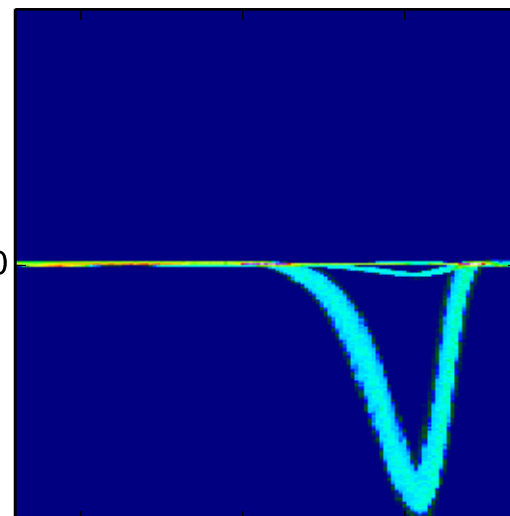
Curvature: -2000 : -1200



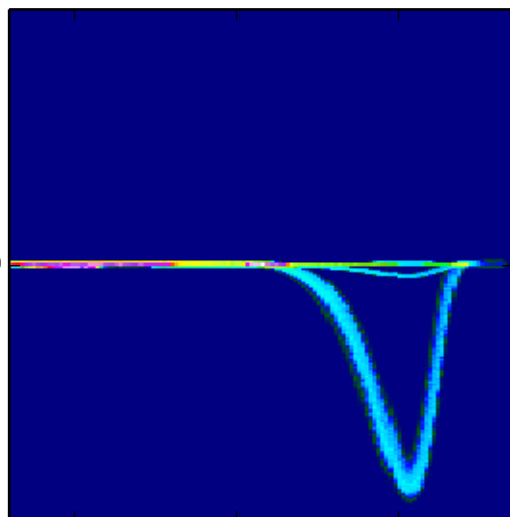
Curvature: -1200 : -400



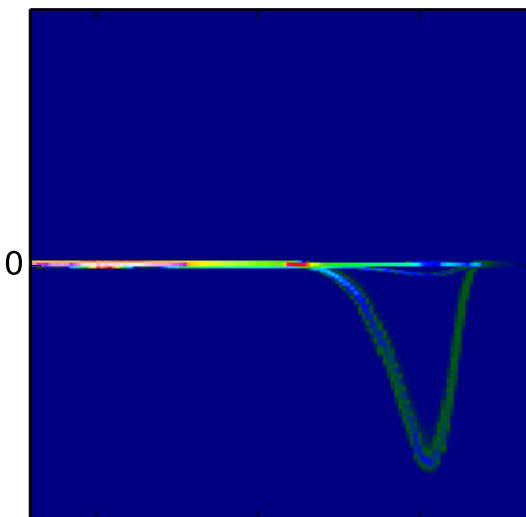
Curvature: -400 : 400



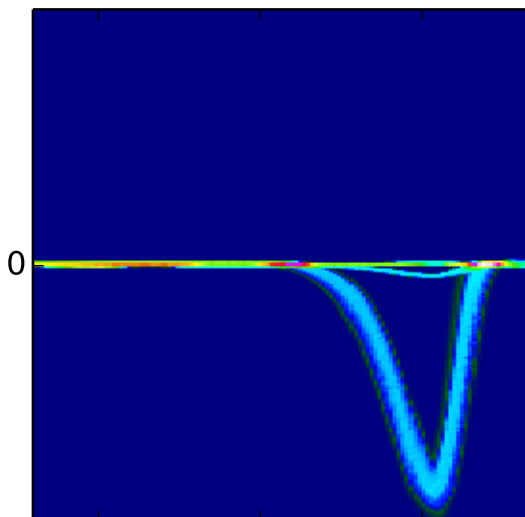
Curvature: 400 : 1200



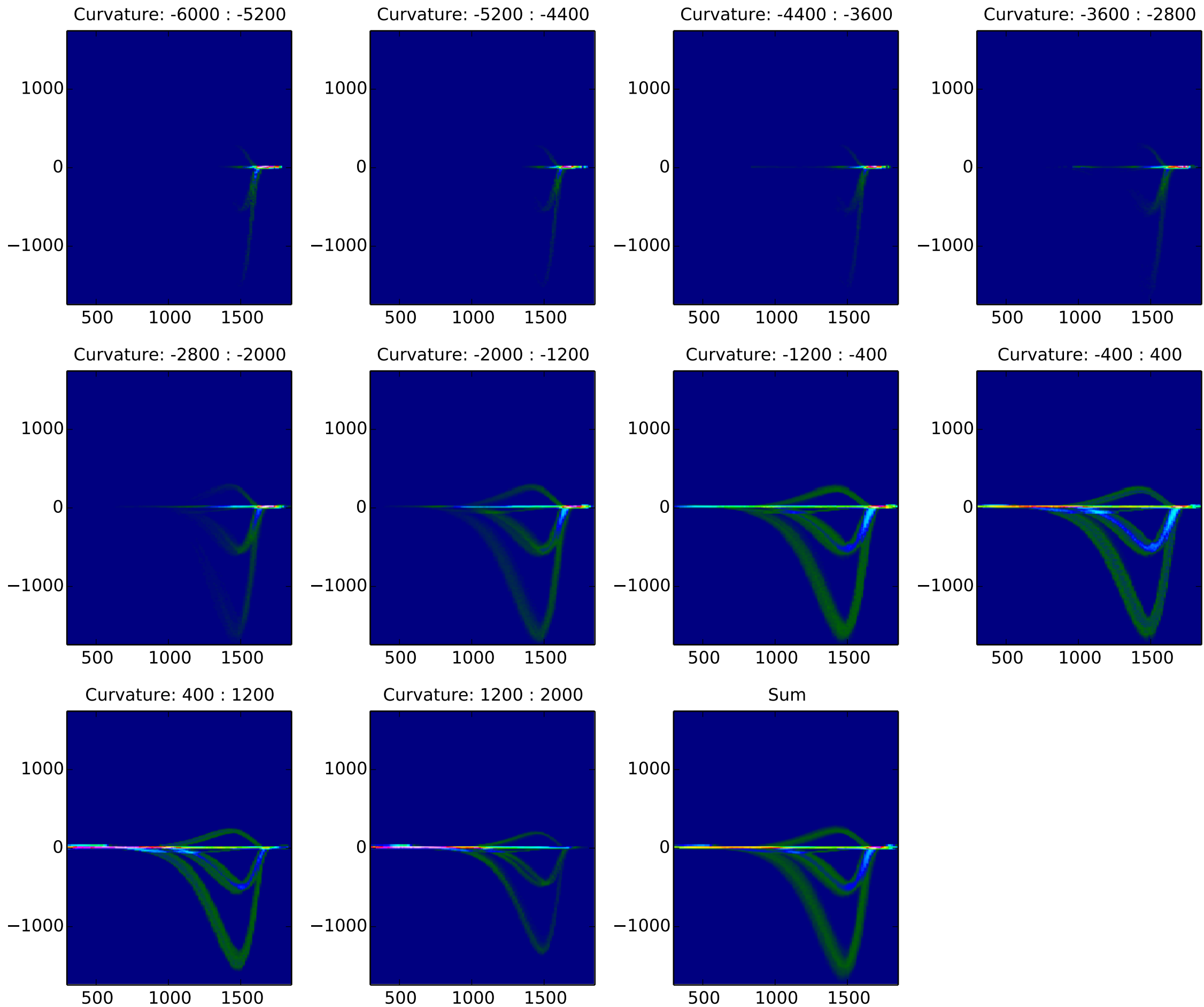
Curvature: 1200 : 2000



Sum

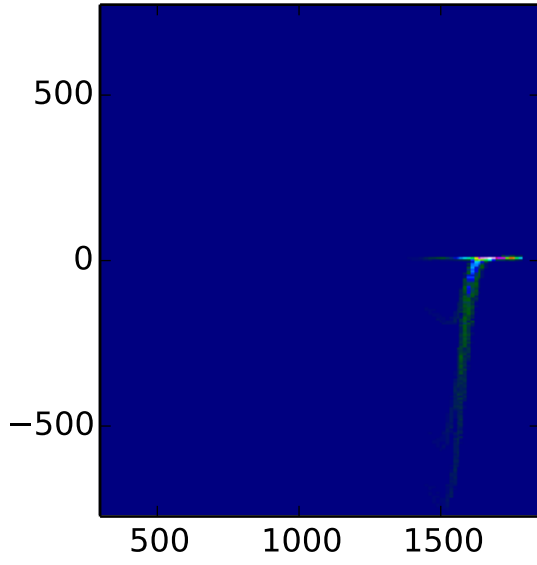


# Edge CH3 $\rightleftharpoons$ CH4

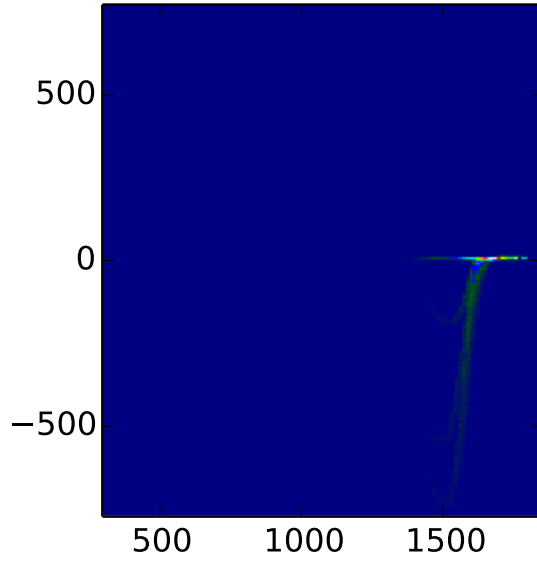


# Edge HCO $\rightleftharpoons$ CH<sub>2</sub>O

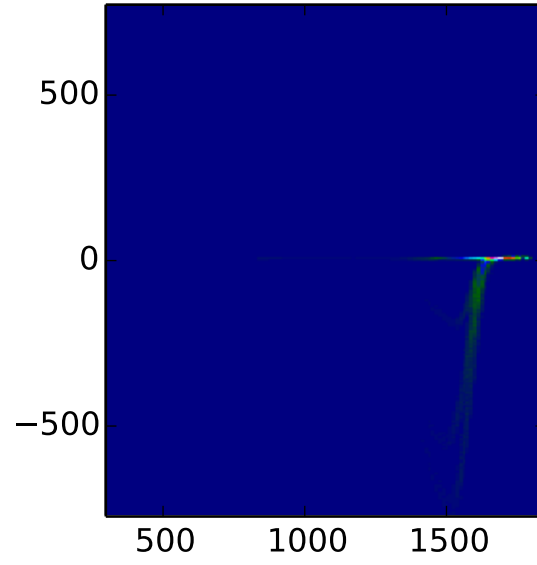
Curvature: -6000 : -5200



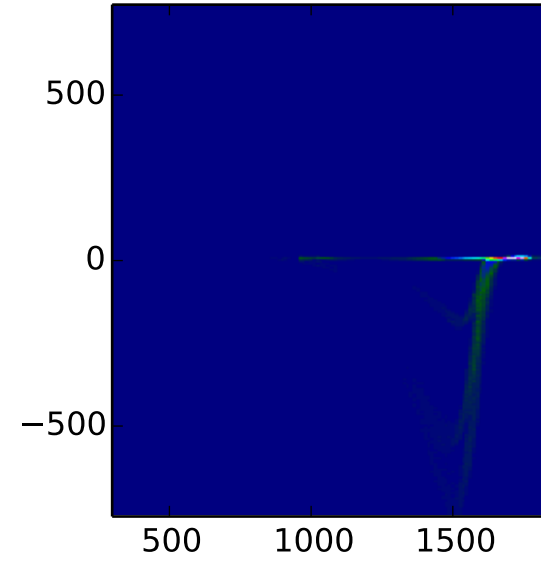
Curvature: -5200 : -4400



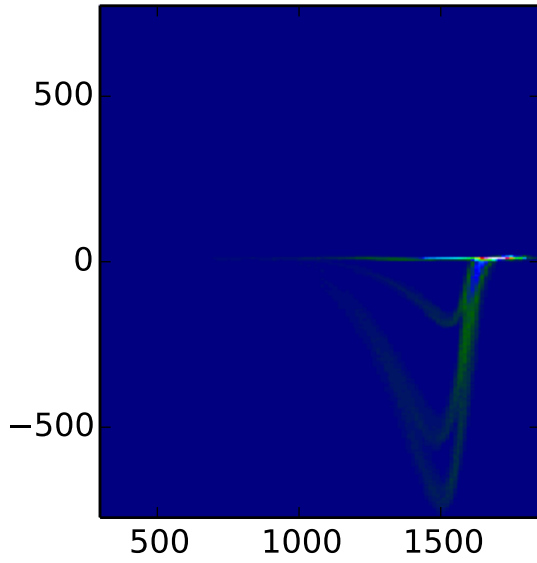
Curvature: -4400 : -3600



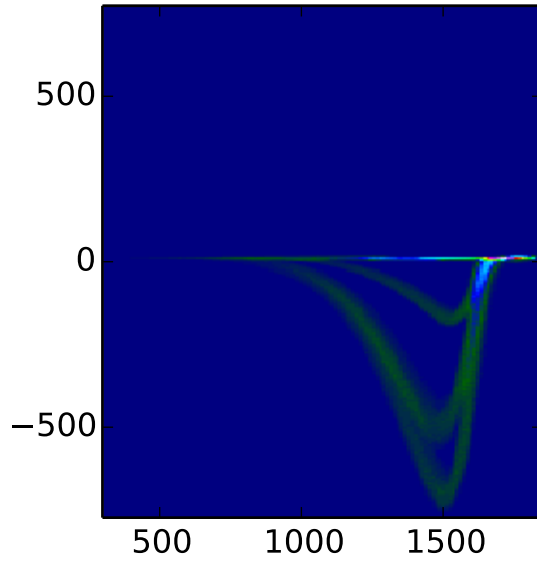
Curvature: -3600 : -2800



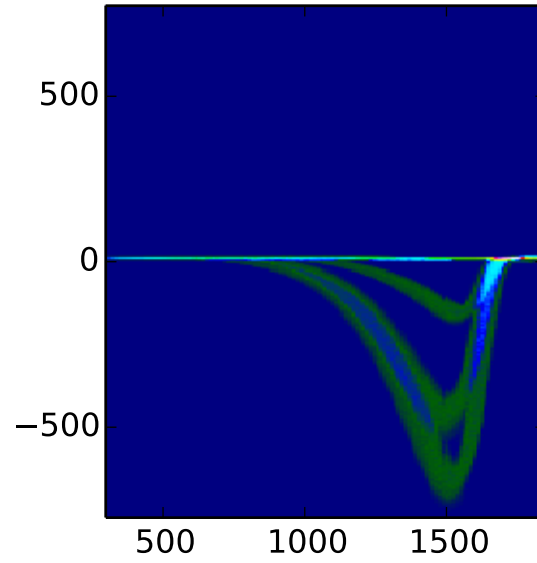
Curvature: -2800 : -2000



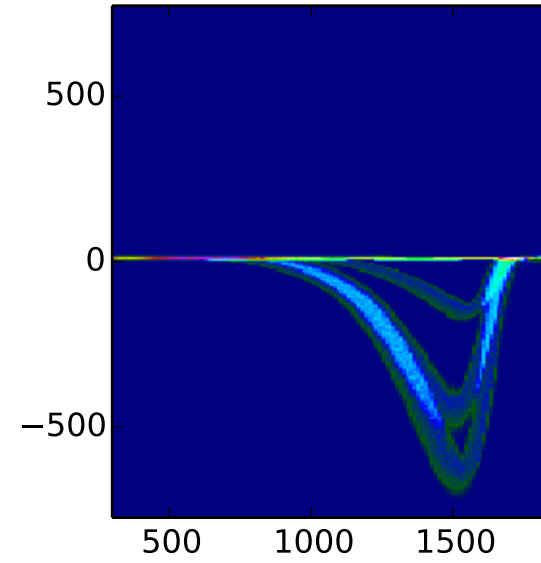
Curvature: -2000 : -1200



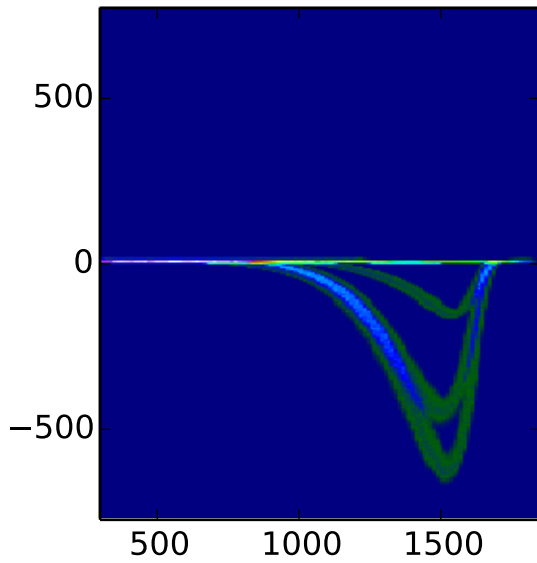
Curvature: -1200 : -400



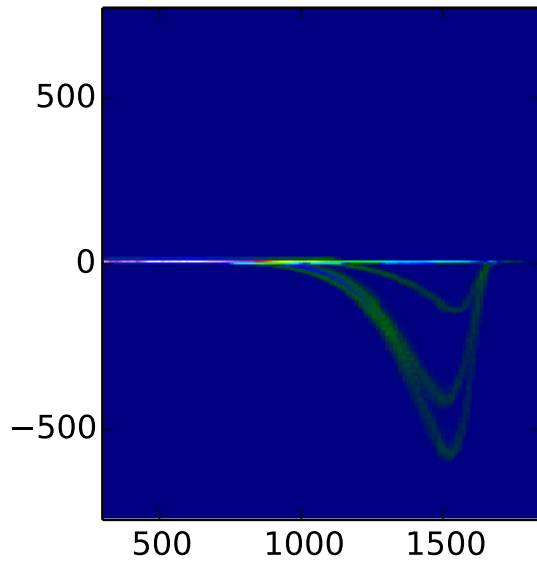
Curvature: -400 : 400



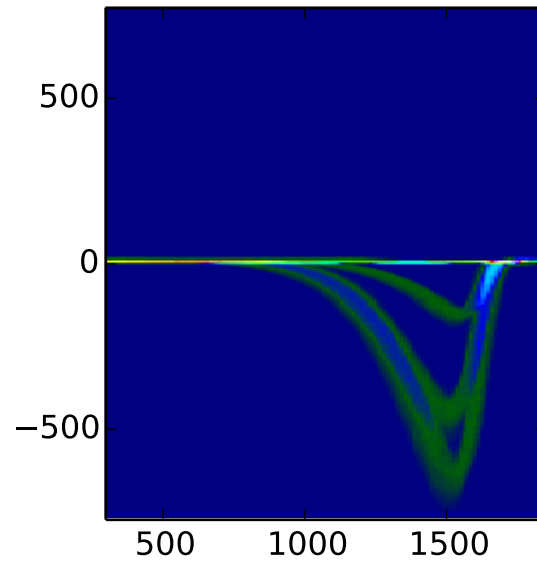
Curvature: 400 : 1200



Curvature: 1200 : 2000

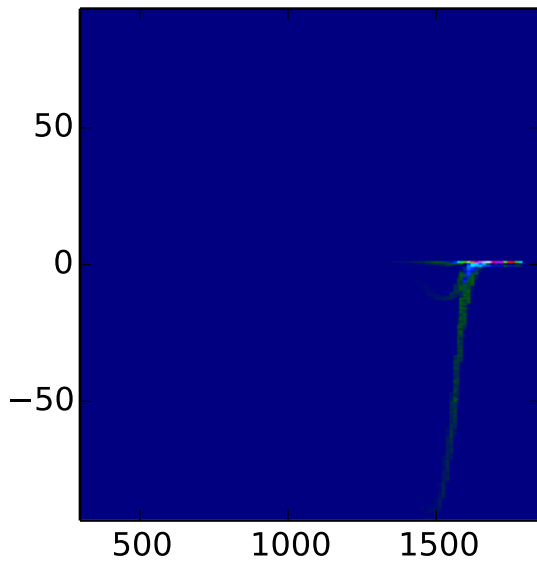


Sum

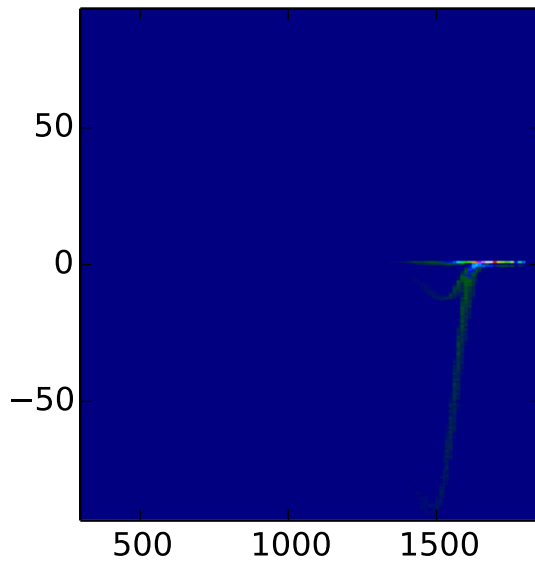


# Edge CH<sub>2</sub>O $\rightleftharpoons$ CH<sub>2</sub>OH

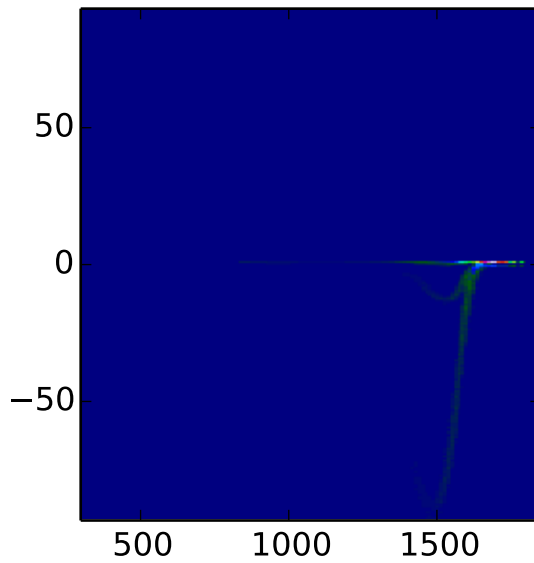
Curvature: -6000 : -5200



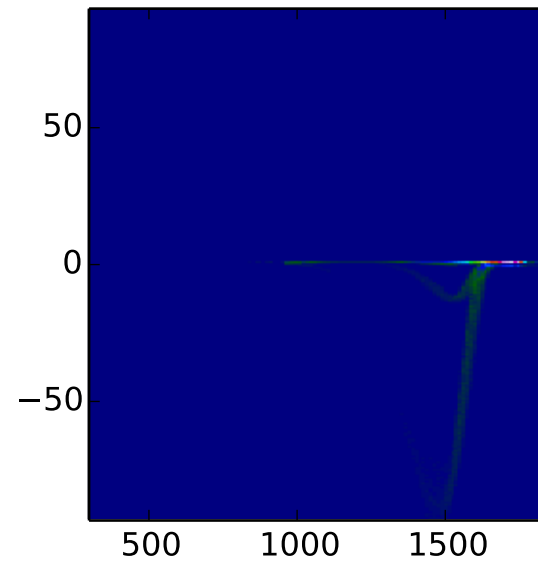
Curvature: -5200 : -4400



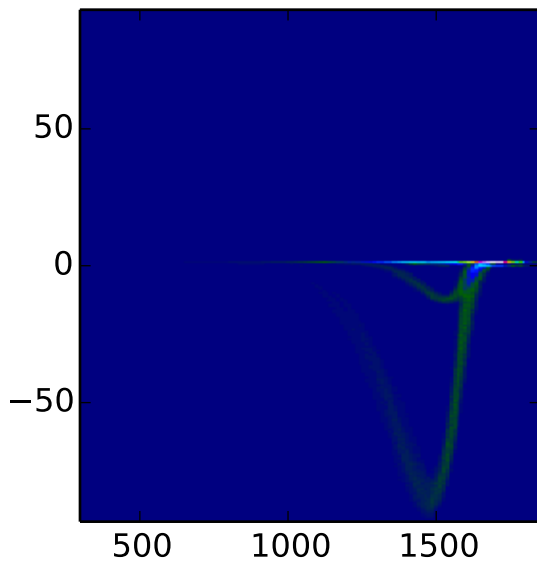
Curvature: -4400 : -3600



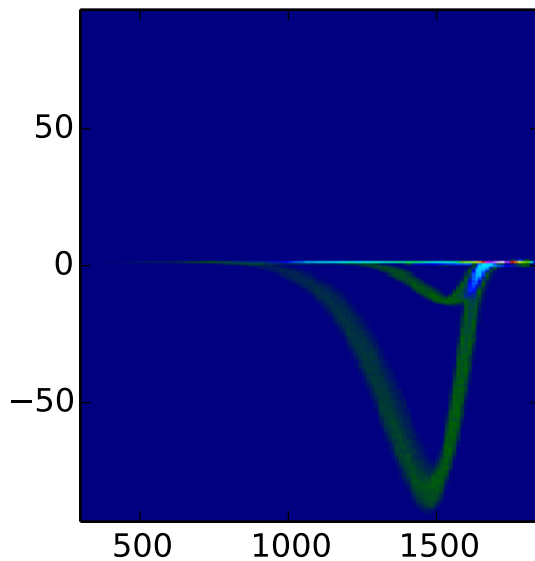
Curvature: -3600 : -2800



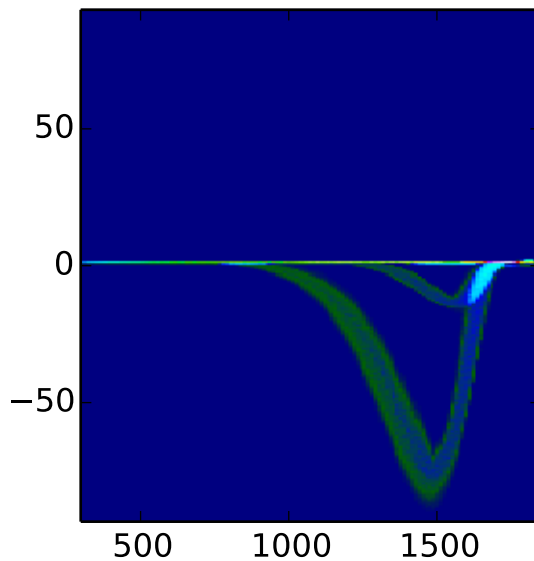
Curvature: -2800 : -2000



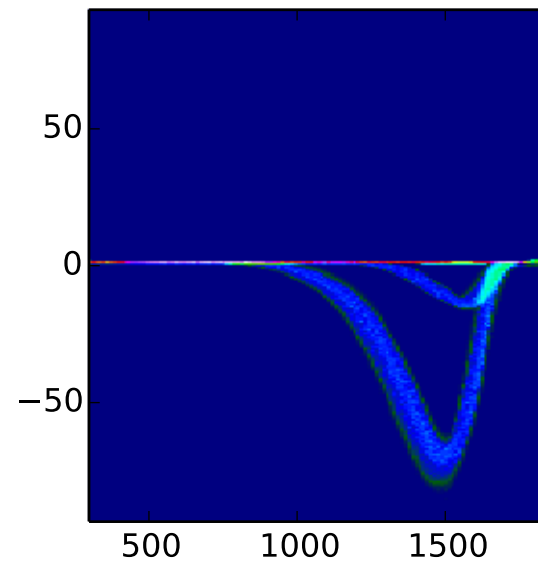
Curvature: -2000 : -1200



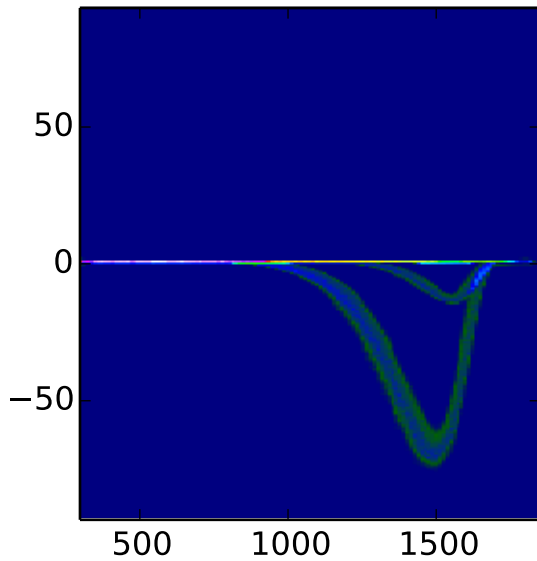
Curvature: -1200 : -400



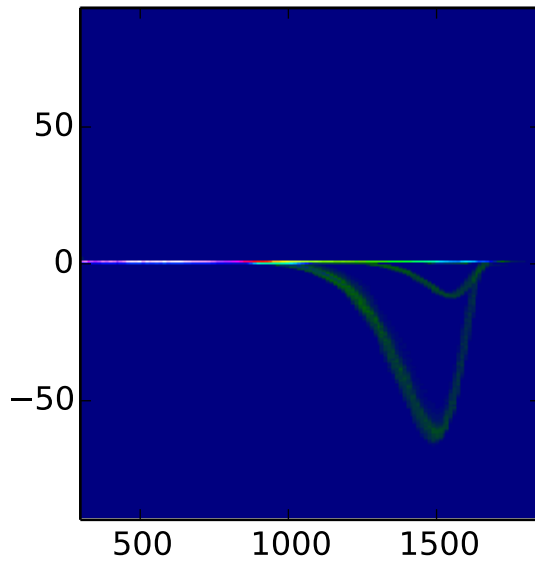
Curvature: -400 : 400



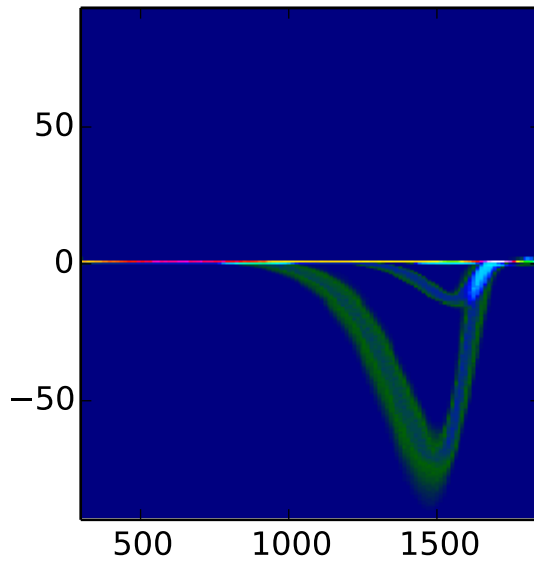
Curvature: 400 : 1200



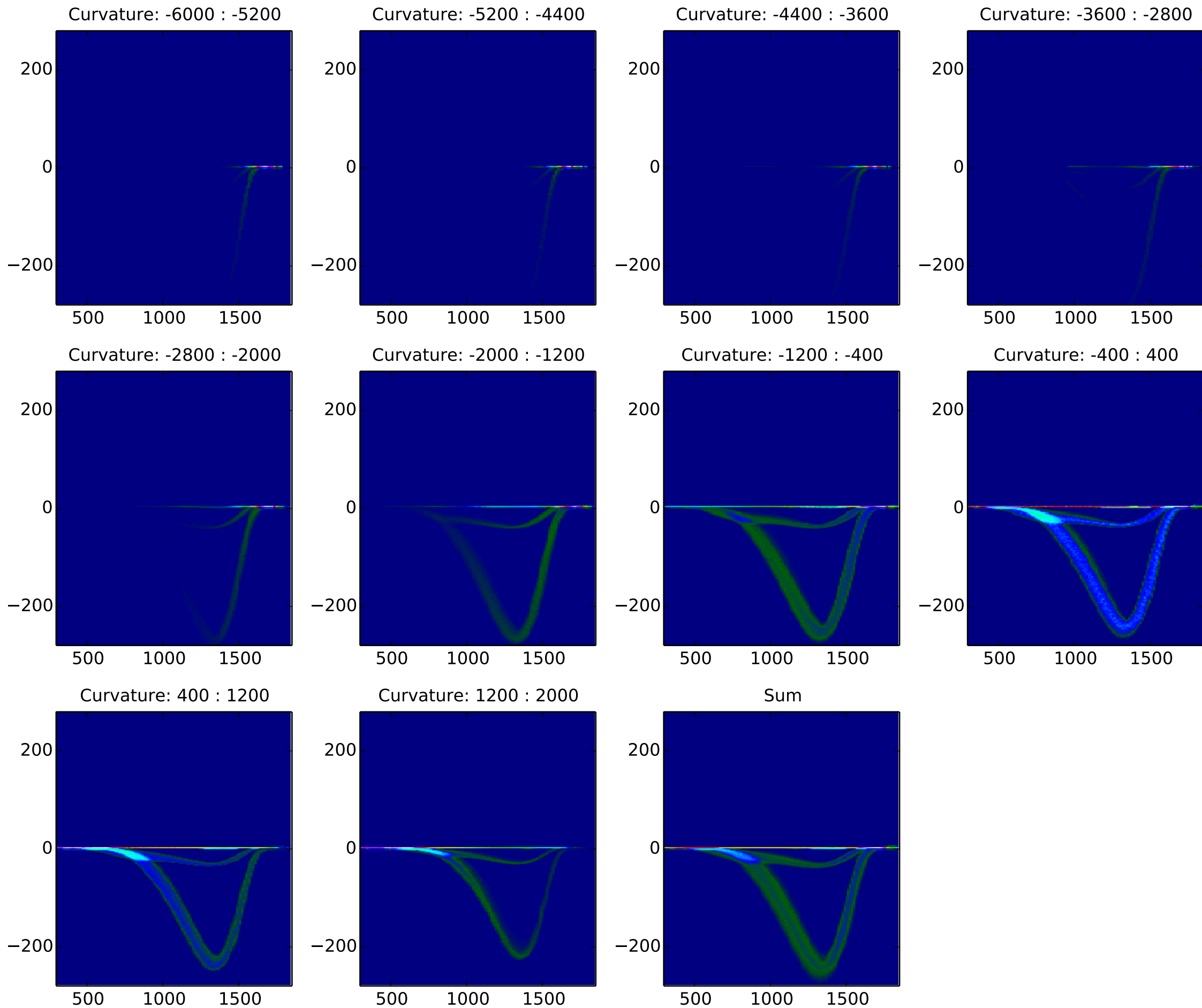
Curvature: 1200 : 2000



Sum

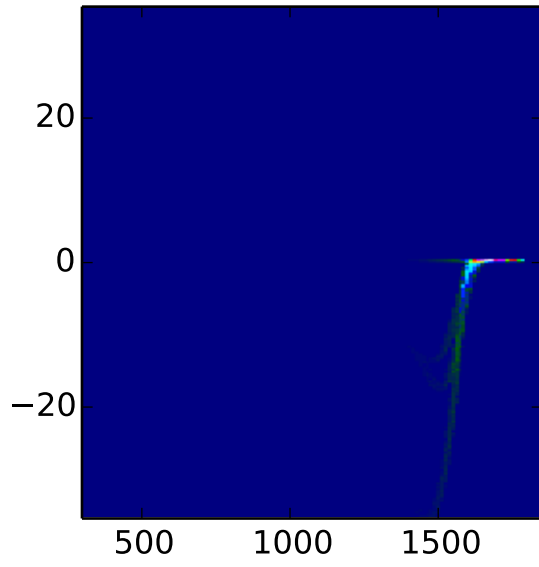


# Edge CH<sub>2</sub>O $\rightleftharpoons$ CH<sub>3</sub>O

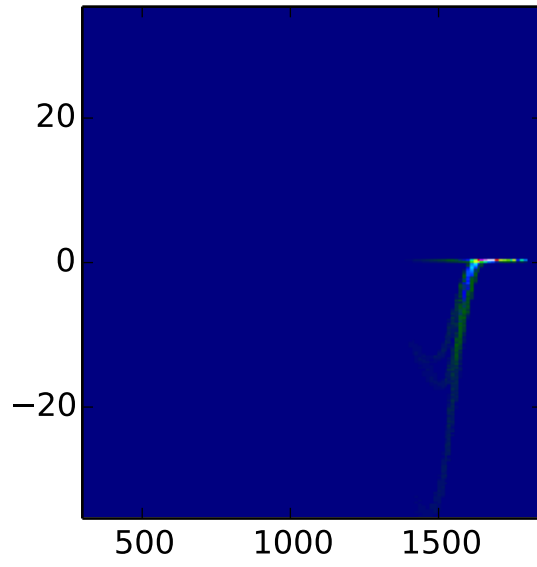


# Edge CH<sub>2</sub>OH $\rightleftharpoons$ CH<sub>3</sub>OH

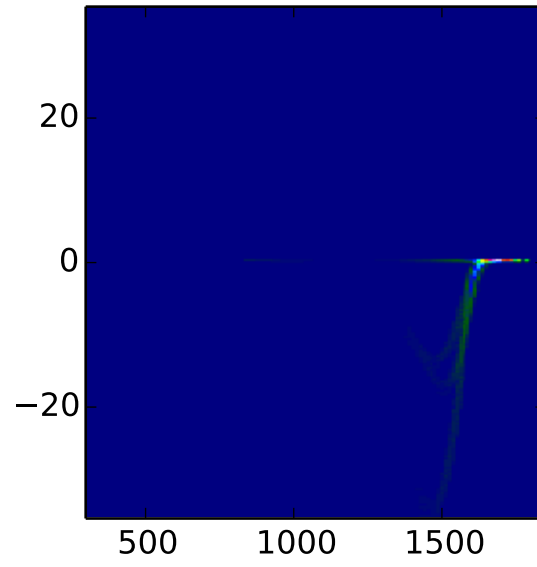
Curvature: -6000 : -5200



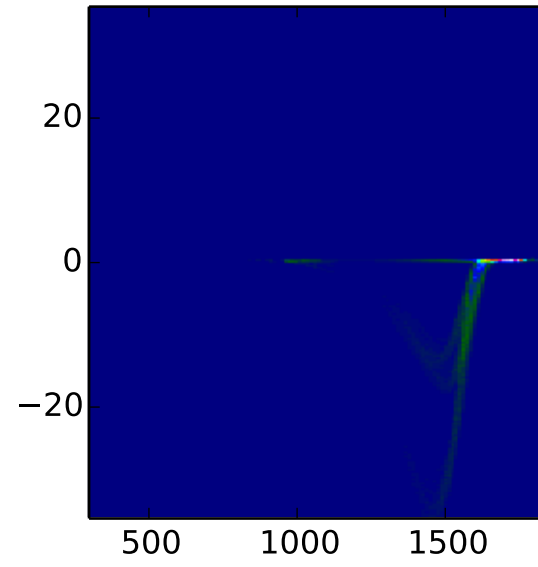
Curvature: -5200 : -4400



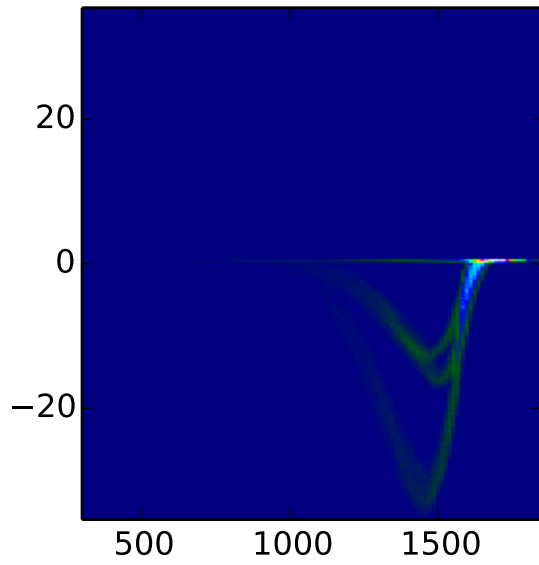
Curvature: -4400 : -3600



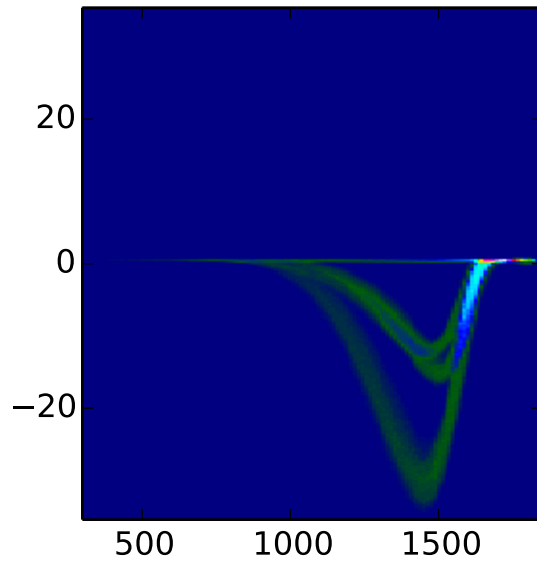
Curvature: -3600 : -2800



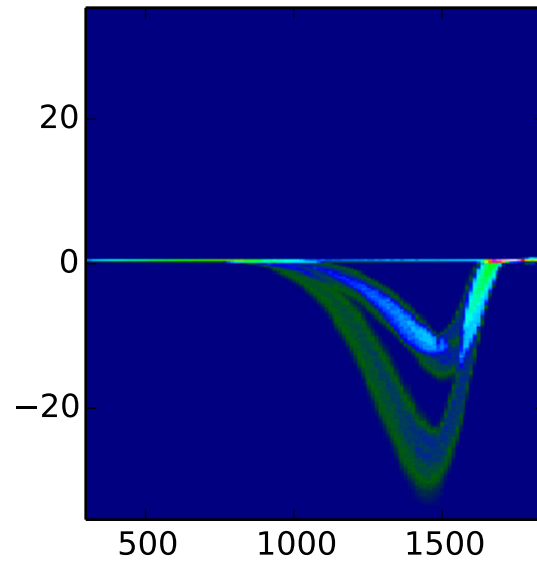
Curvature: -2800 : -2000



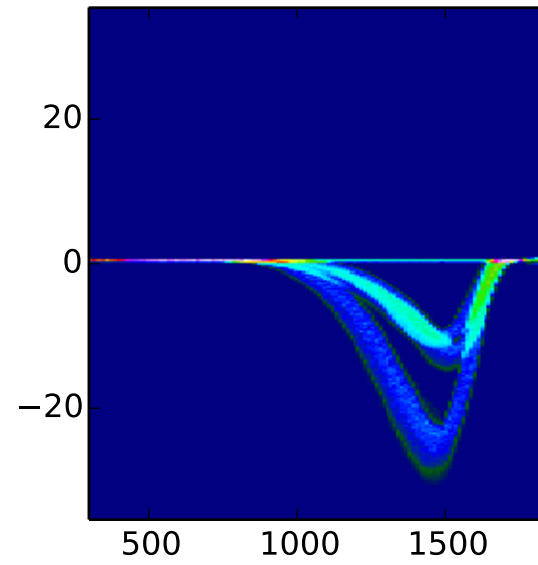
Curvature: -2000 : -1200



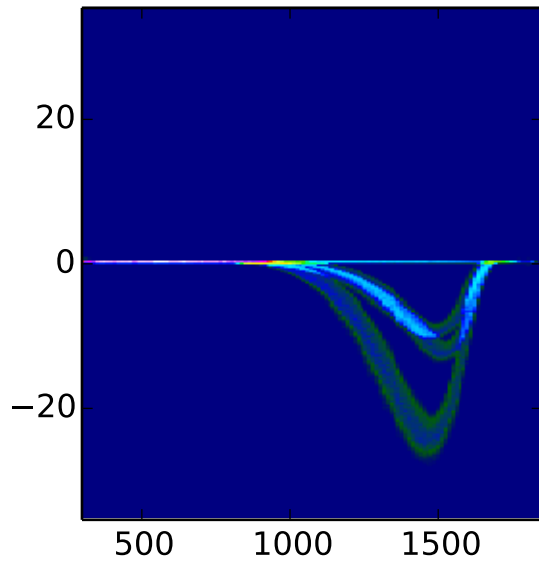
Curvature: -1200 : -400



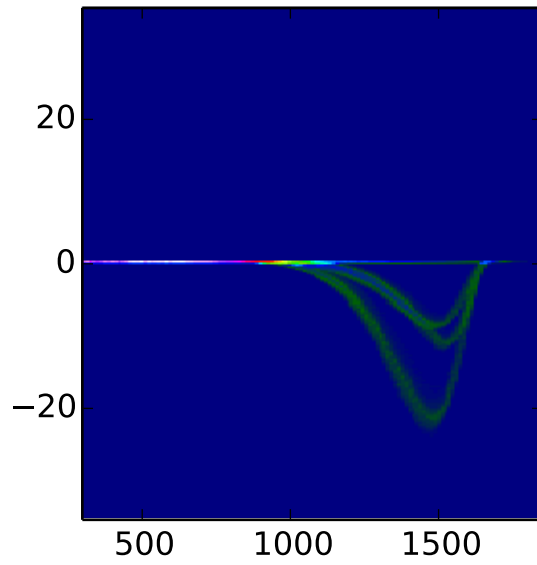
Curvature: -400 : 400



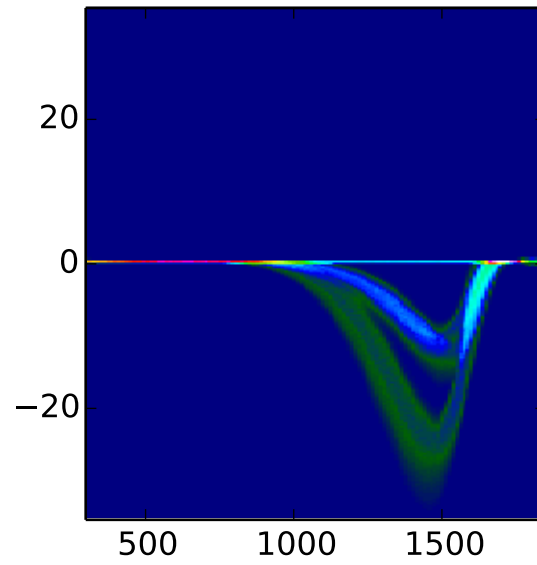
Curvature: 400 : 1200



Curvature: 1200 : 2000

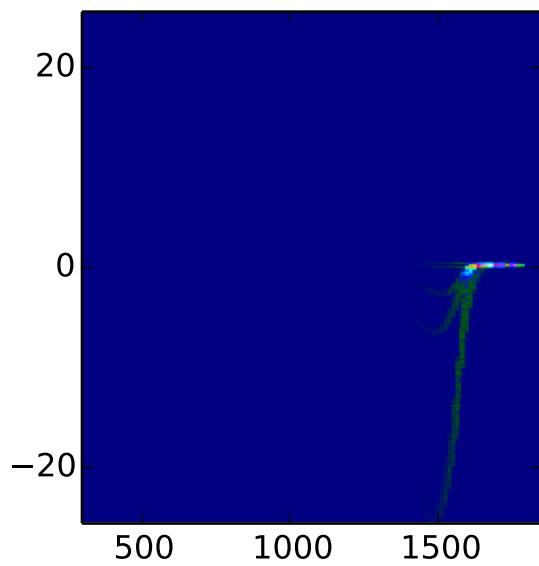


Sum

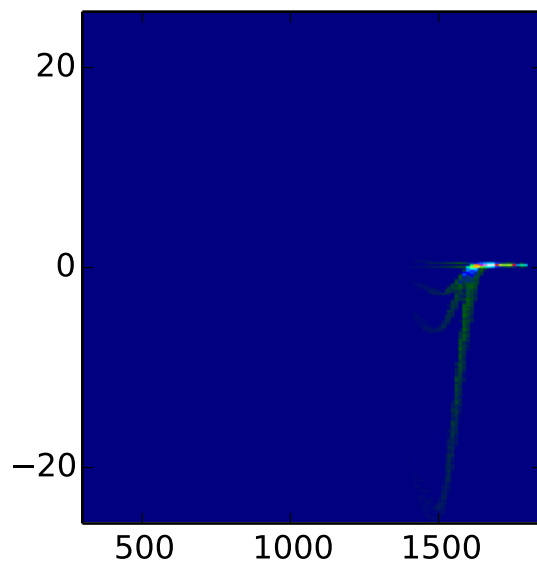


# Edge CH<sub>3</sub>O $\rightleftharpoons$ CH<sub>3</sub>OH

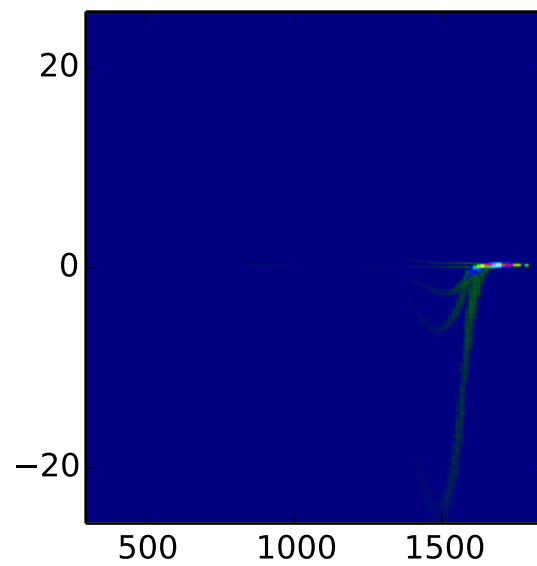
Curvature: -6000 : -5200



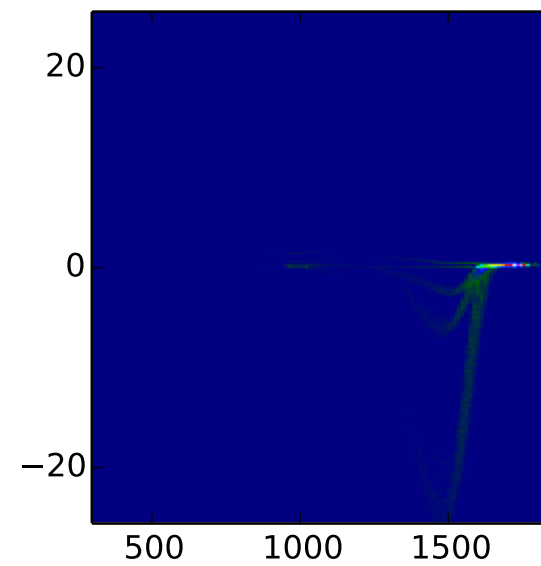
Curvature: -5200 : -4400



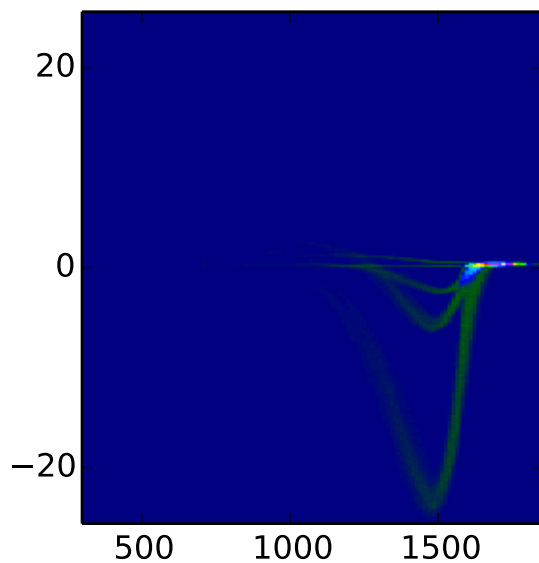
Curvature: -4400 : -3600



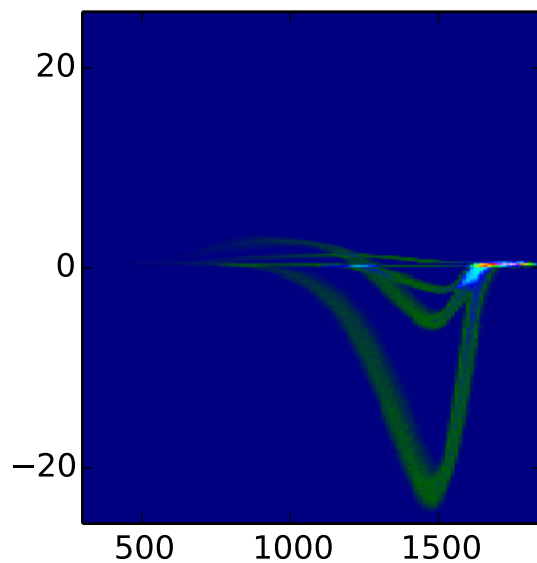
Curvature: -3600 : -2800



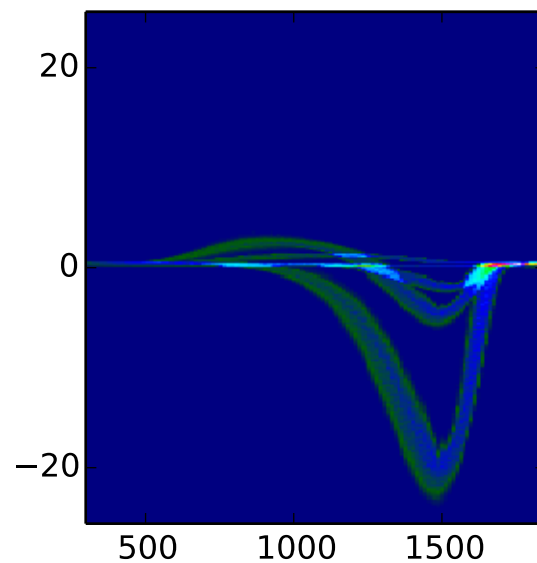
Curvature: -2800 : -2000



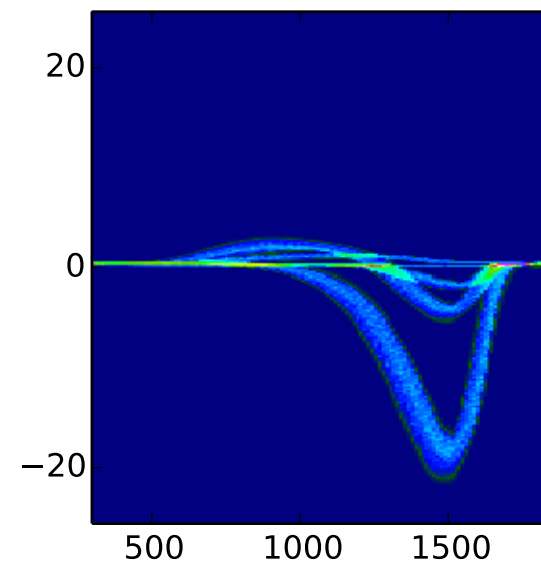
Curvature: -2000 : -1200



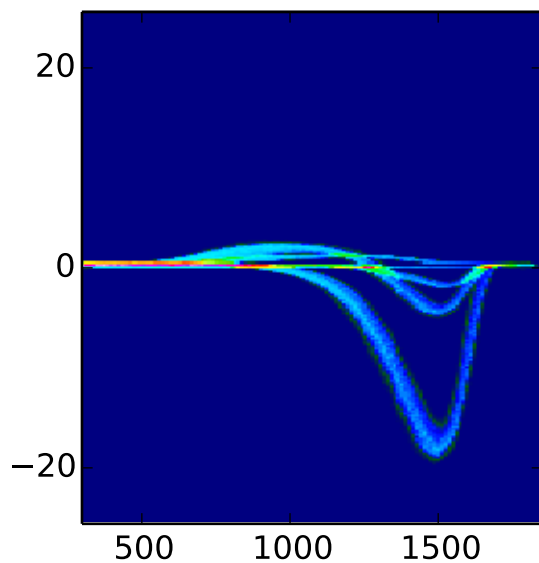
Curvature: -1200 : -400



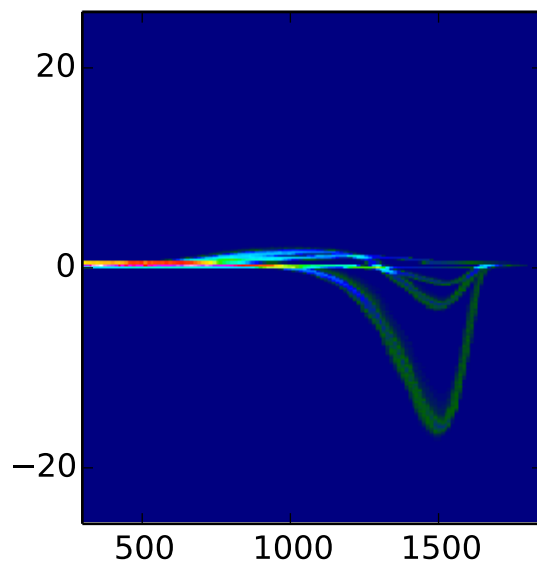
Curvature: -400 : 400



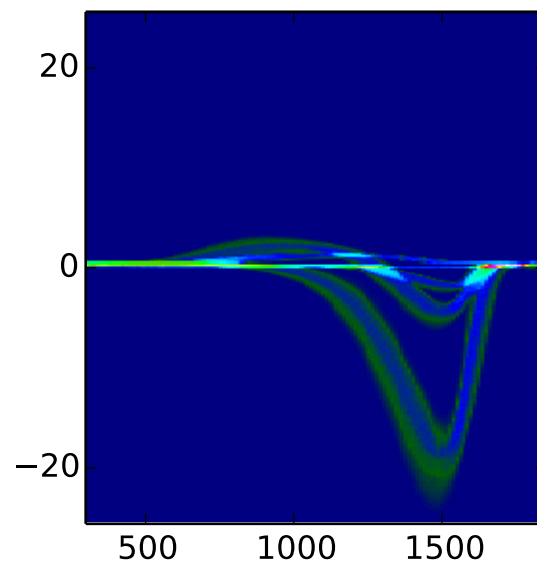
Curvature: 400 : 1200



Curvature: 1200 : 2000

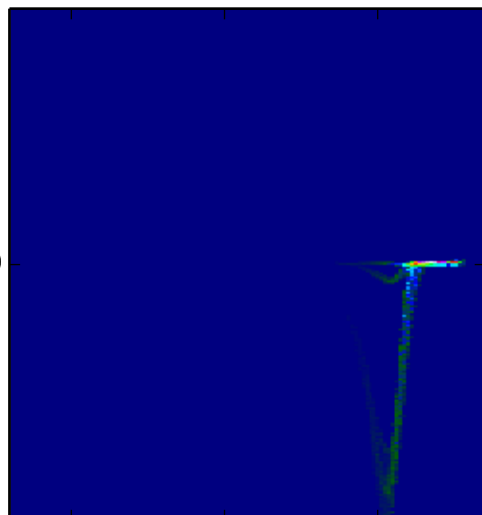


Sum

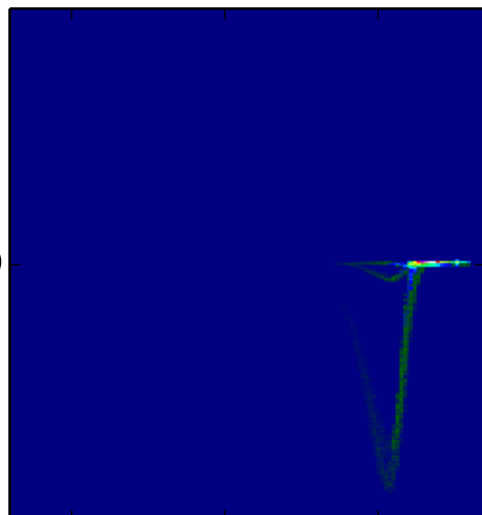


# Edge C2H $\rightleftharpoons$ C2H2

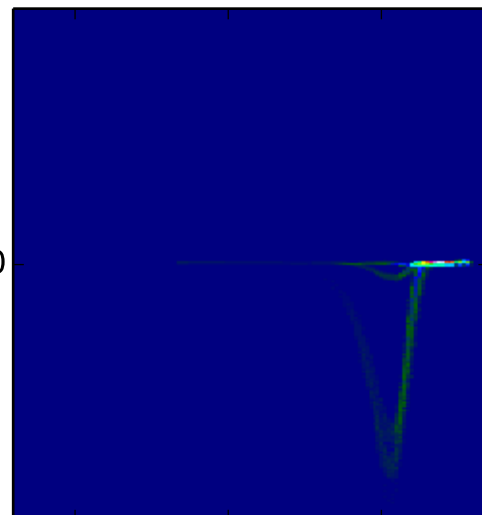
Curvature: -6000 : -5200



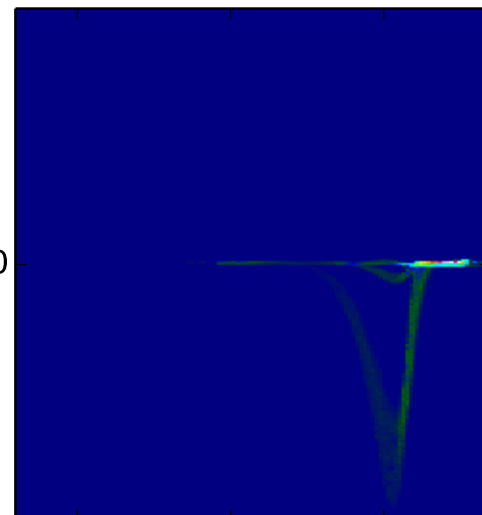
Curvature: -5200 : -4400



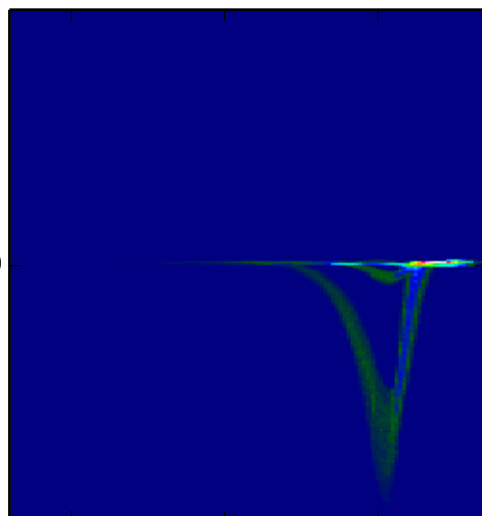
Curvature: -4400 : -3600



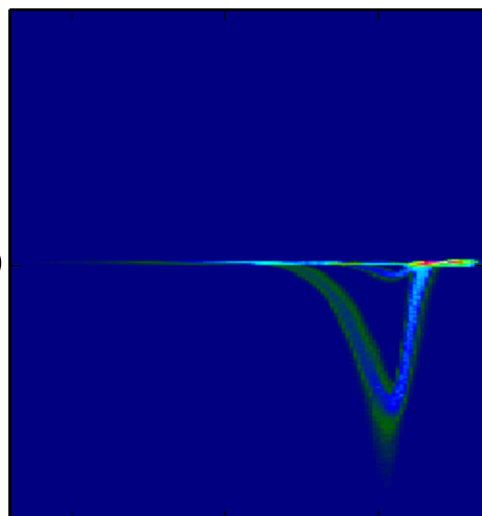
Curvature: -3600 : -2800



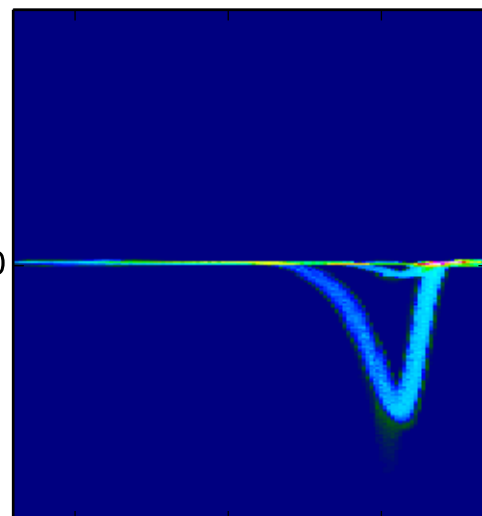
Curvature: -2800 : -2000



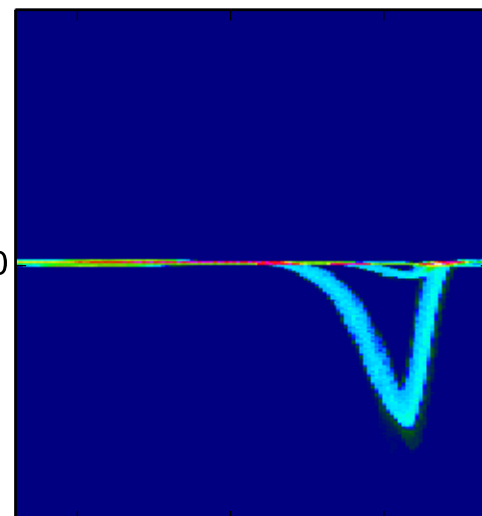
Curvature: -2000 : -1200



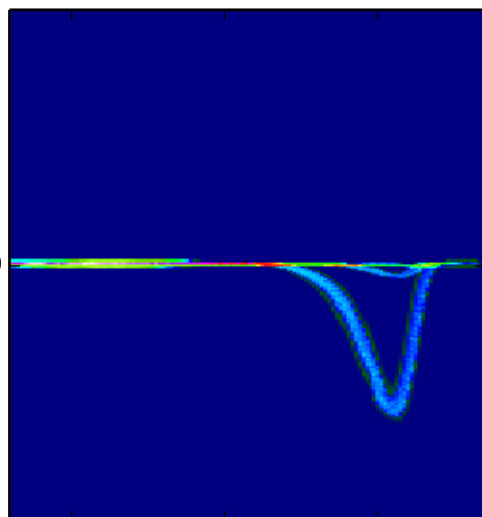
Curvature: -1200 : -400



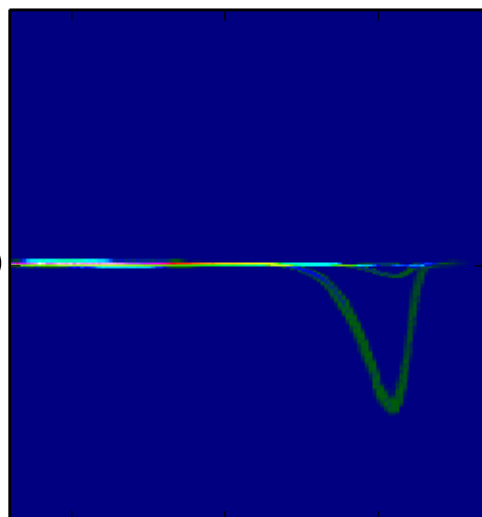
Curvature: -400 : 400



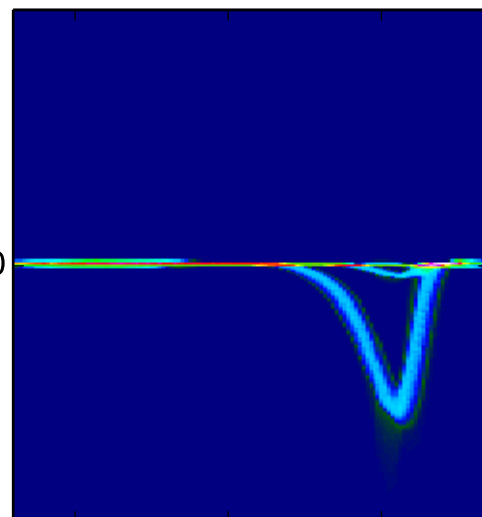
Curvature: 400 : 1200



Curvature: 1200 : 2000



Sum



0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

500 1000 1500

500 1000 1500

500 1000 1500

500 1000 1500

500 1000 1500

500 1000 1500

500 1000 1500

500 1000 1500

500 1000 1500

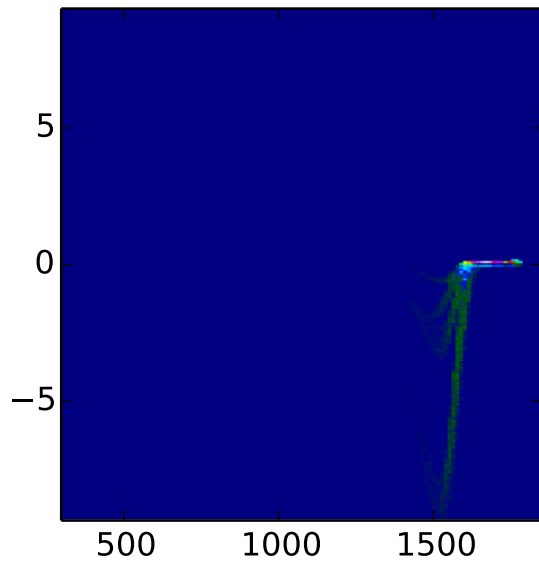
500 1000 1500

500 1000 1500

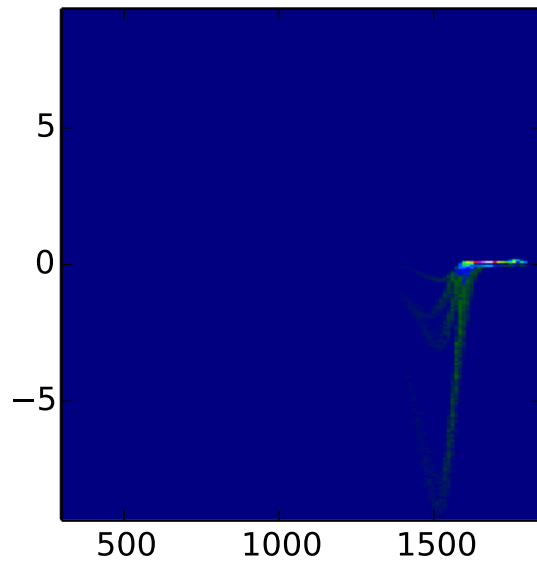


# Edge C2H2 $\rightleftharpoons$ C2H3

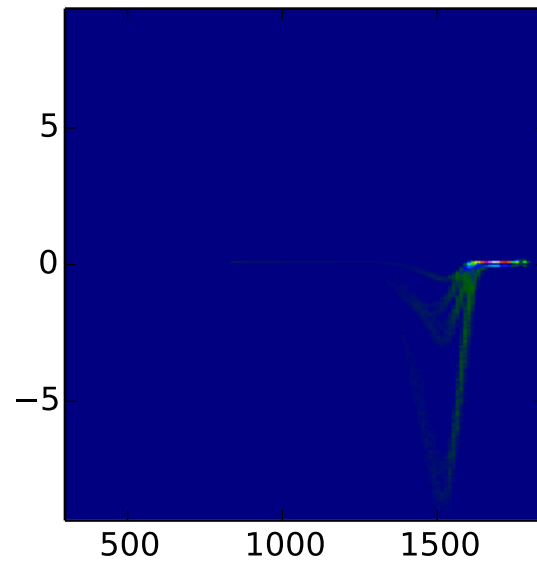
Curvature: -6000 : -5200



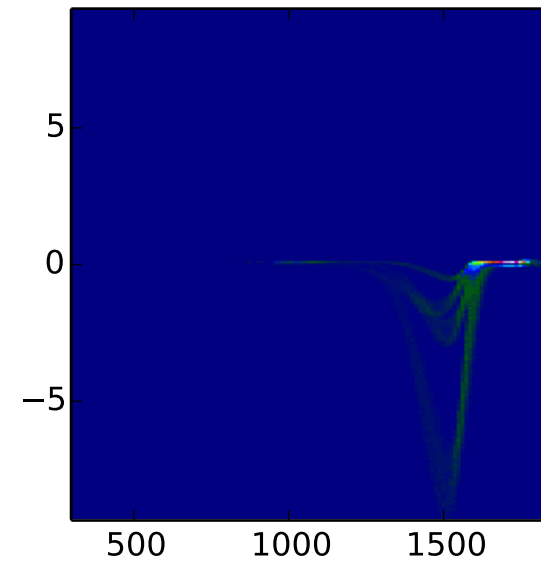
Curvature: -5200 : -4400



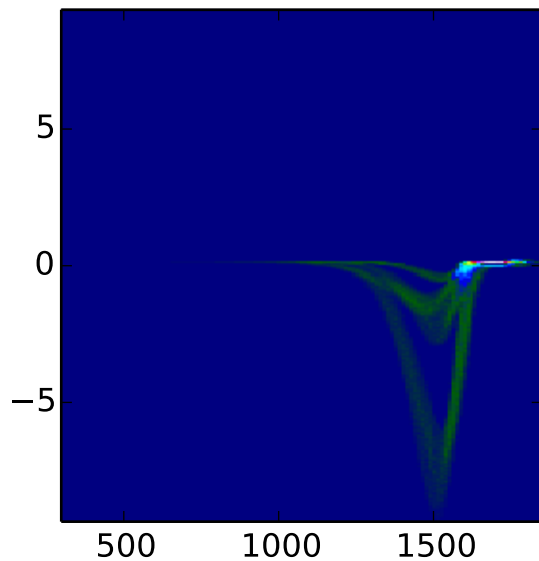
Curvature: -4400 : -3600



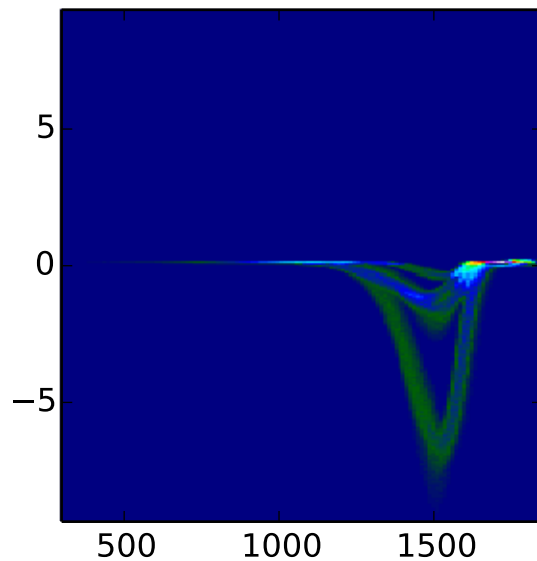
Curvature: -3600 : -2800



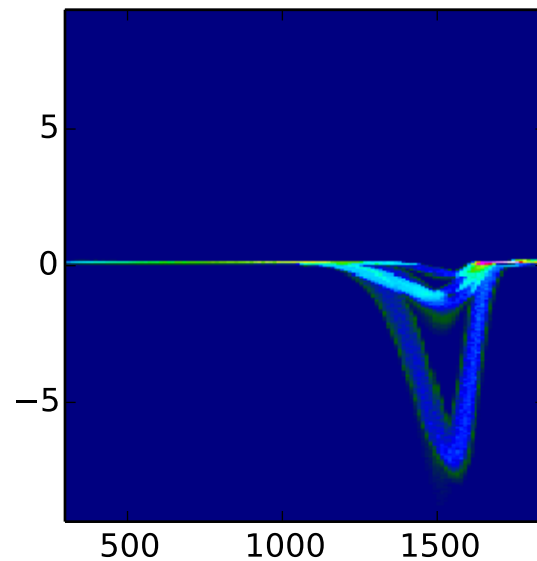
Curvature: -2800 : -2000



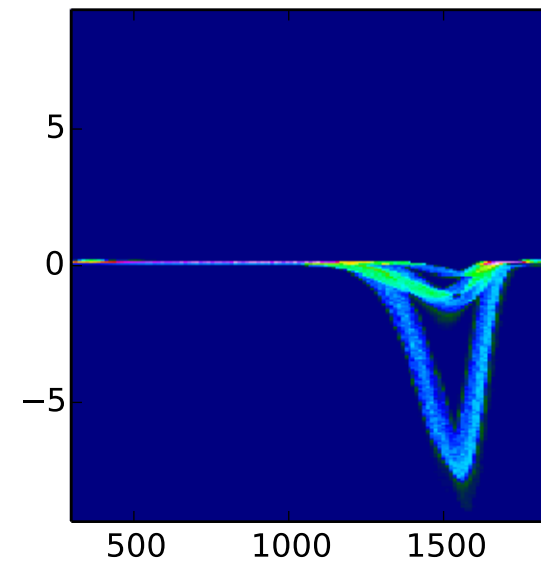
Curvature: -2000 : -1200



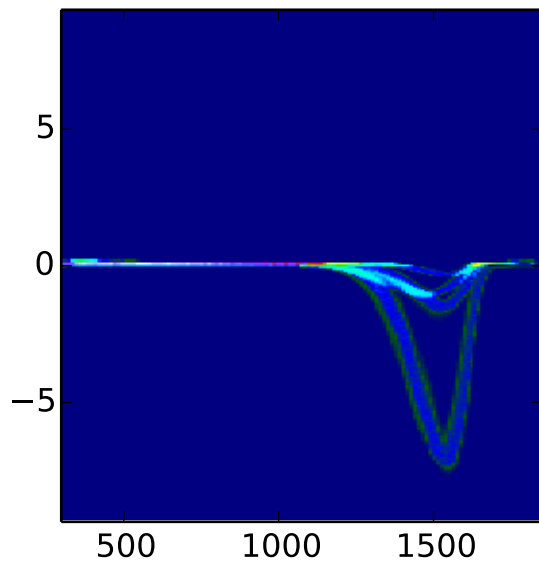
Curvature: -1200 : -400



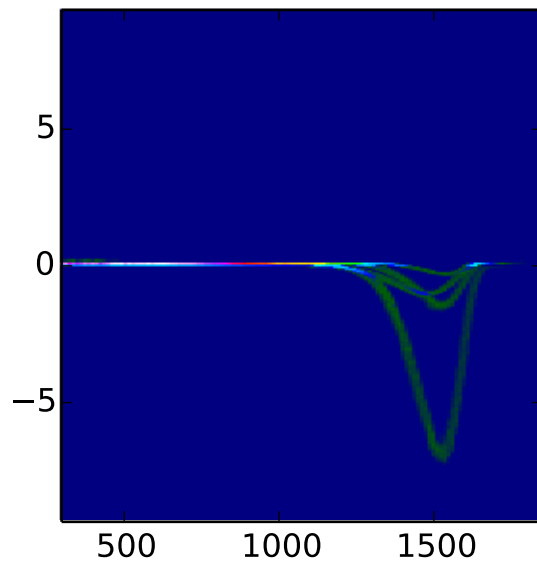
Curvature: -400 : 400



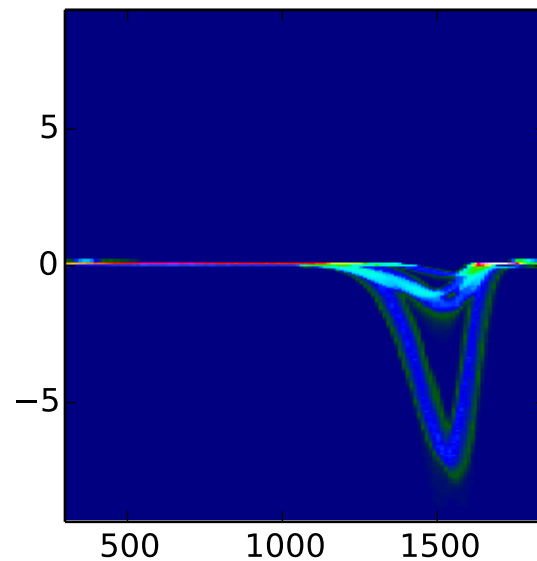
Curvature: 400 : 1200



Curvature: 1200 : 2000

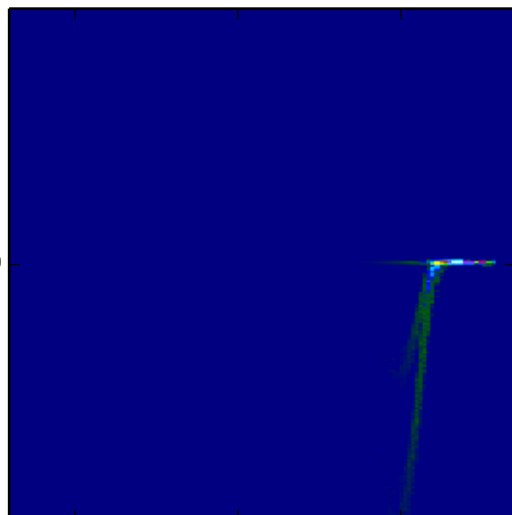


Sum

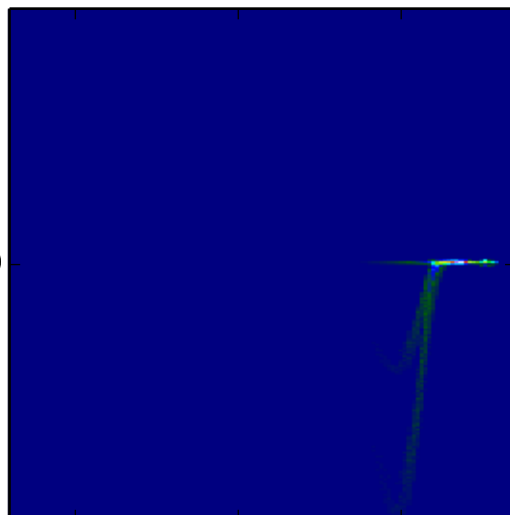


# Edge C2H3 $\rightleftharpoons$ C2H4

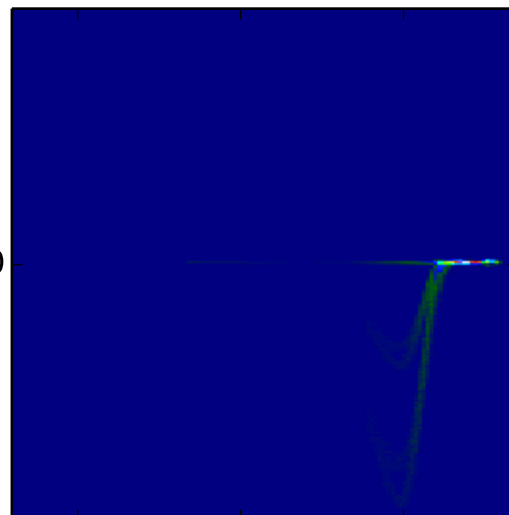
Curvature: -6000 : -5200



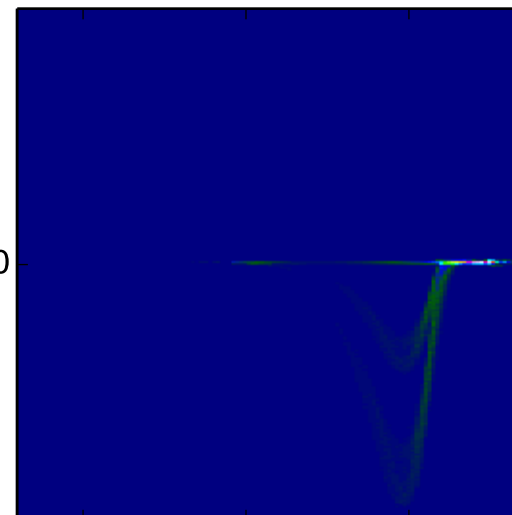
Curvature: -5200 : -4400



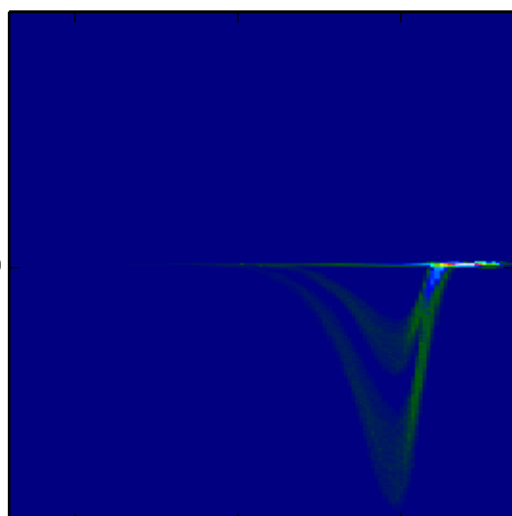
Curvature: -4400 : -3600



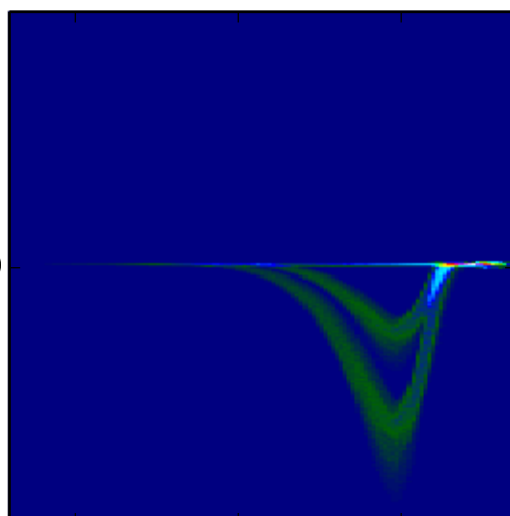
Curvature: -3600 : -2800



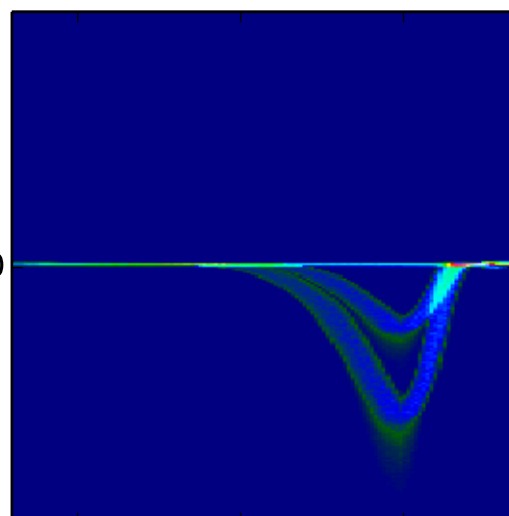
Curvature: -2800 : -2000



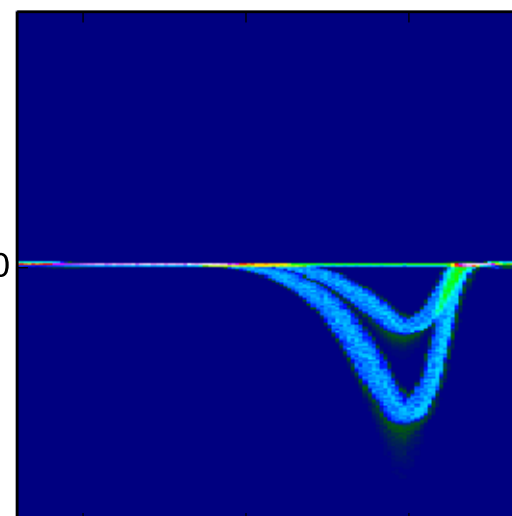
Curvature: -2000 : -1200



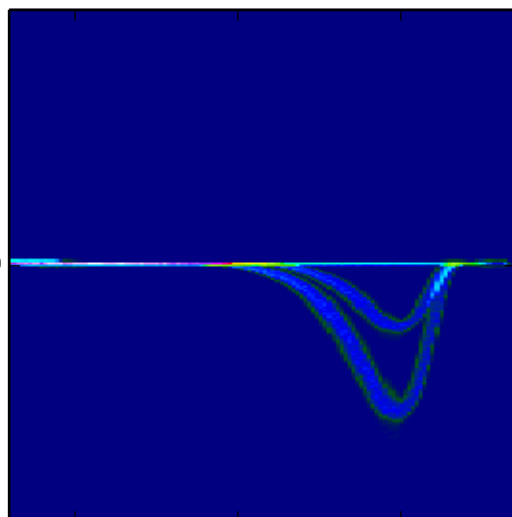
Curvature: -1200 : -400



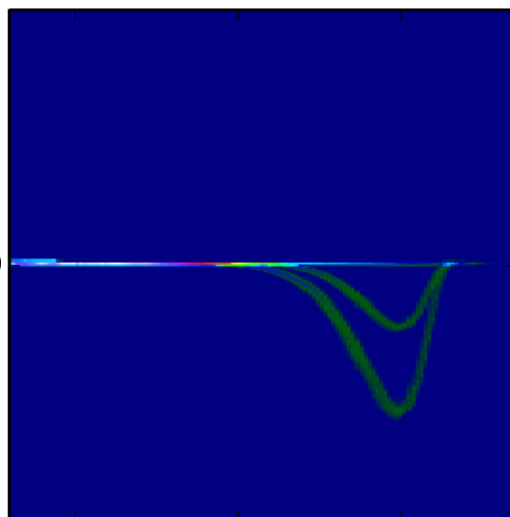
Curvature: -400 : 400



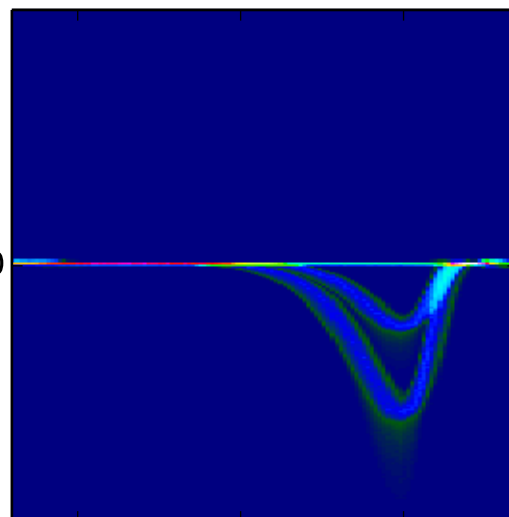
Curvature: 400 : 1200



Curvature: 1200 : 2000



Sum



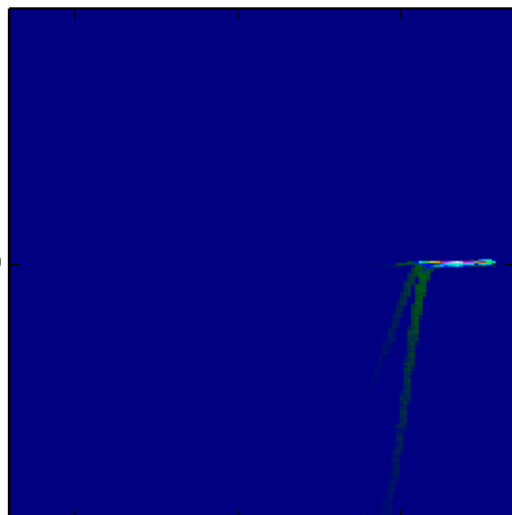
500 1000 1500

500 1000 1500

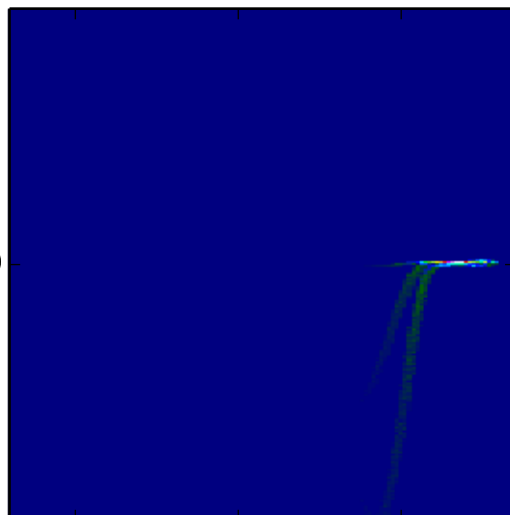
500 1000 1500

# Edge C2H4 $\rightleftharpoons$ C2H5

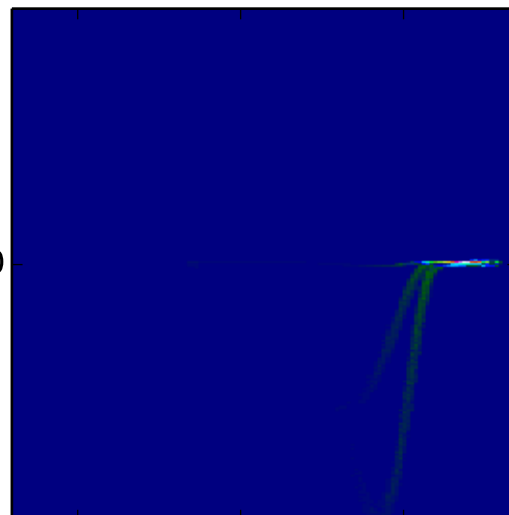
Curvature: -6000 : -5200



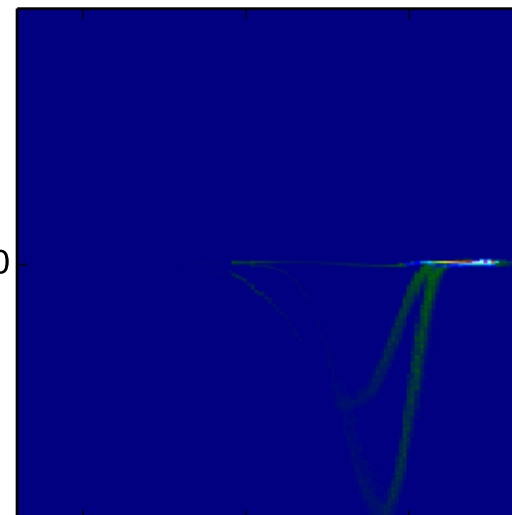
Curvature: -5200 : -4400



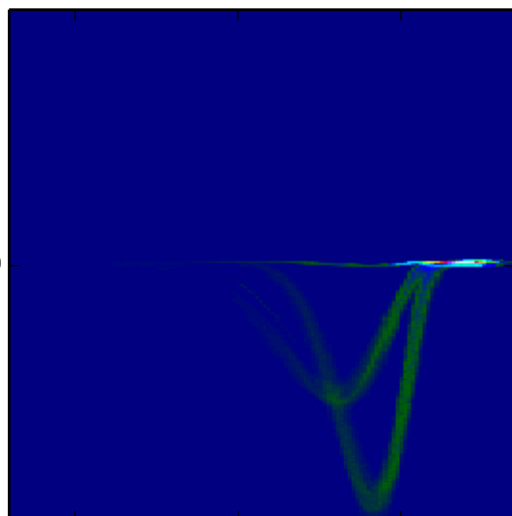
Curvature: -4400 : -3600



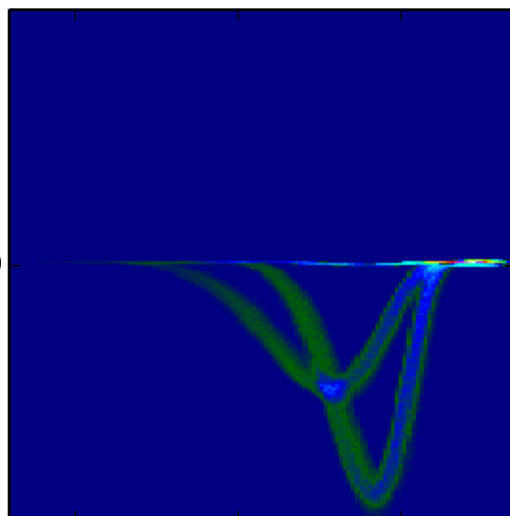
Curvature: -3600 : -2800



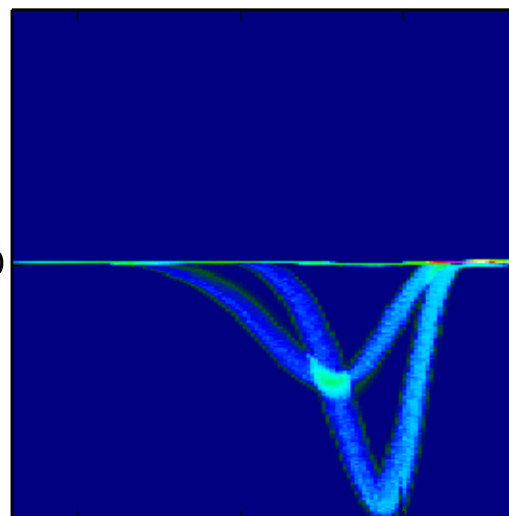
Curvature: -2800 : -2000



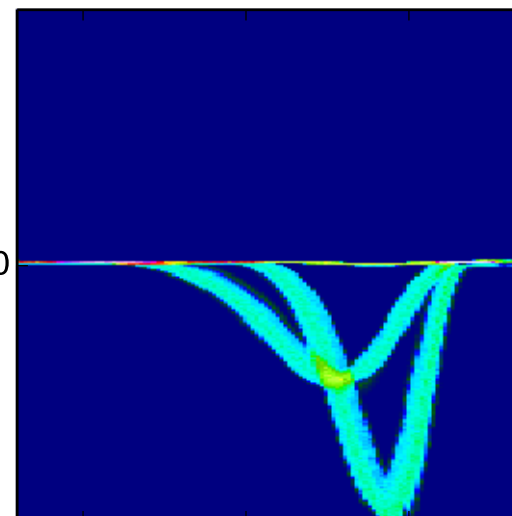
Curvature: -2000 : -1200



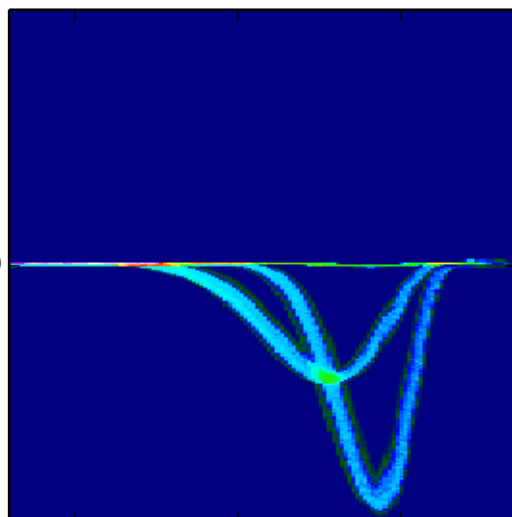
Curvature: -1200 : -400



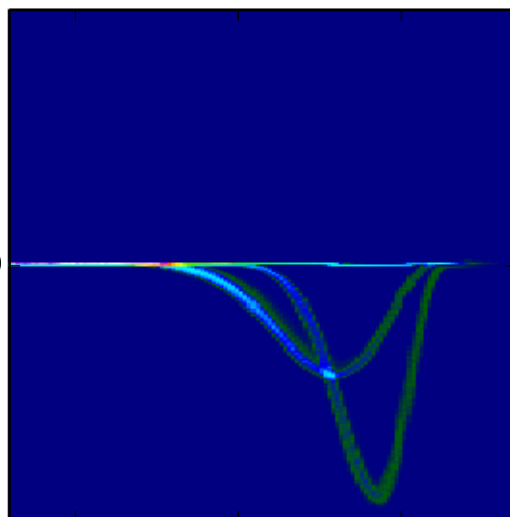
Curvature: -400 : 400



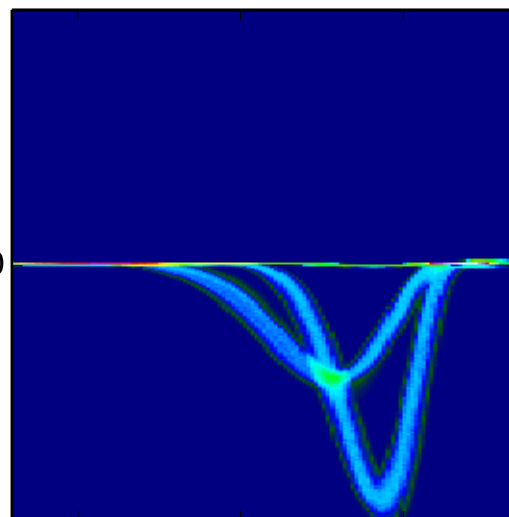
Curvature: 400 : 1200



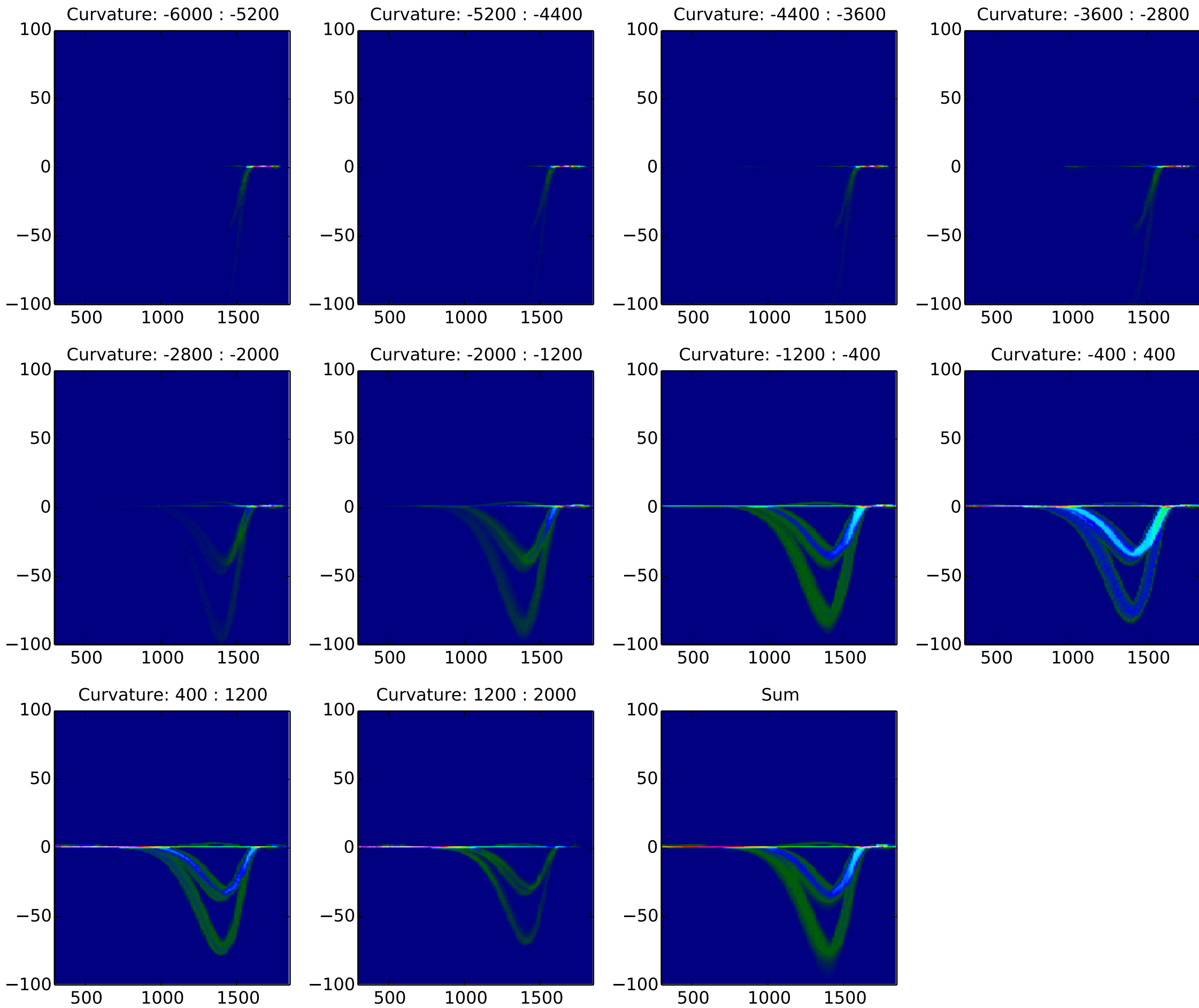
Curvature: 1200 : 2000



Sum



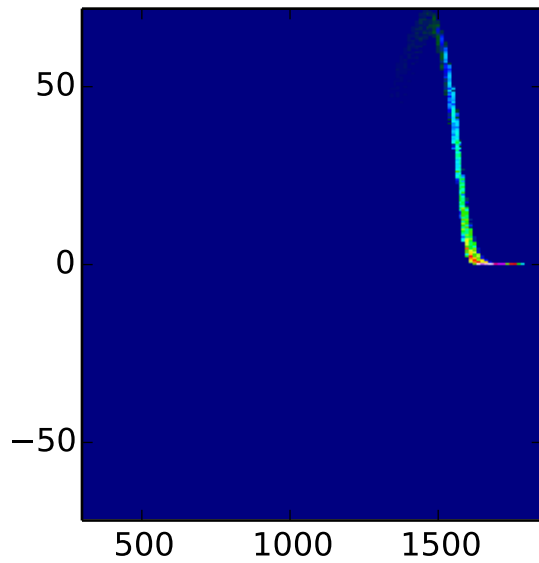
# Edge C2H5 $\rightleftharpoons$ C2H6



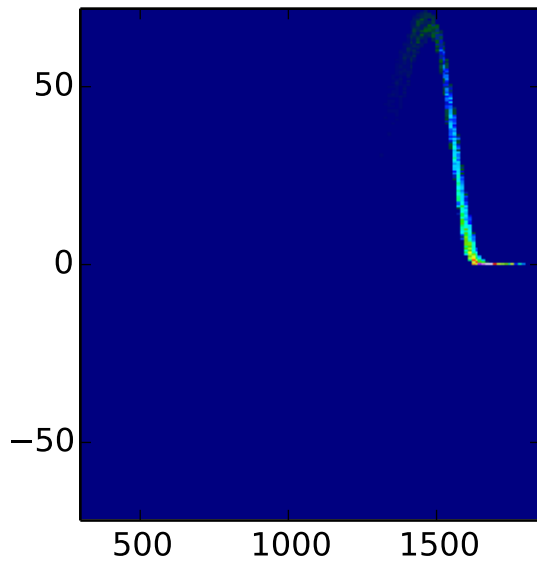


# Edge CH3 $\rightleftharpoons$ CH3OH

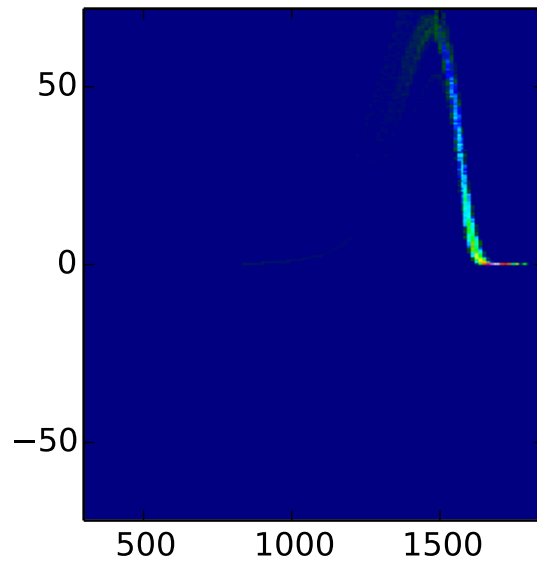
Curvature: -6000 : -5200



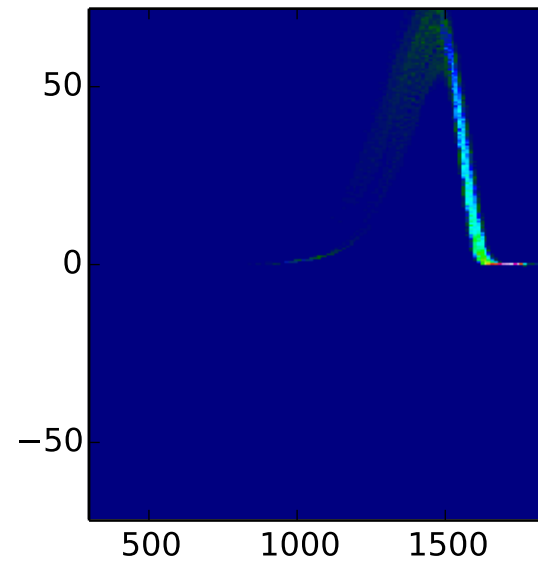
Curvature: -5200 : -4400



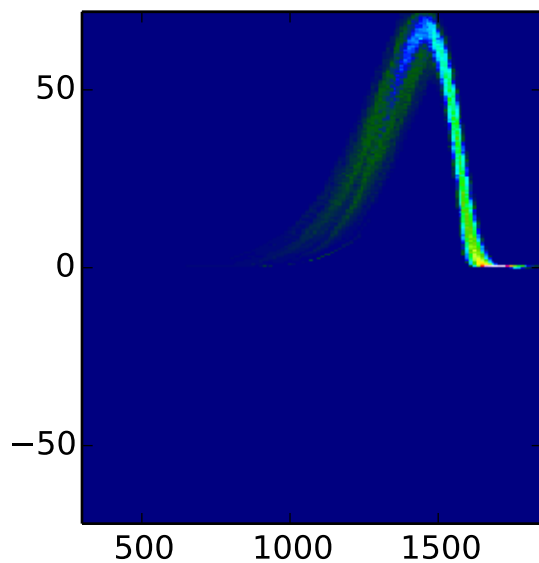
Curvature: -4400 : -3600



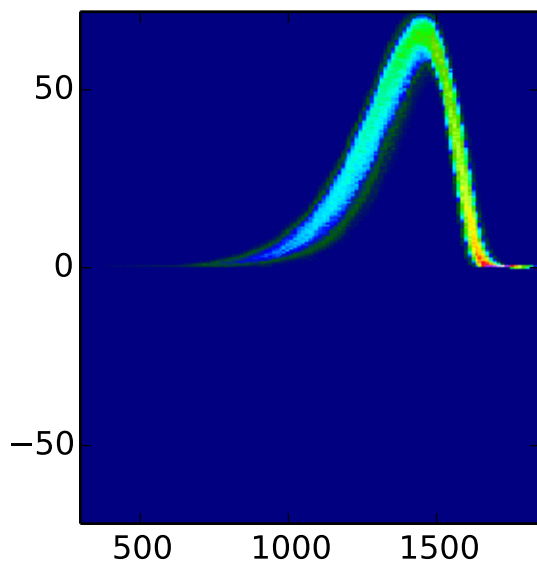
Curvature: -3600 : -2800



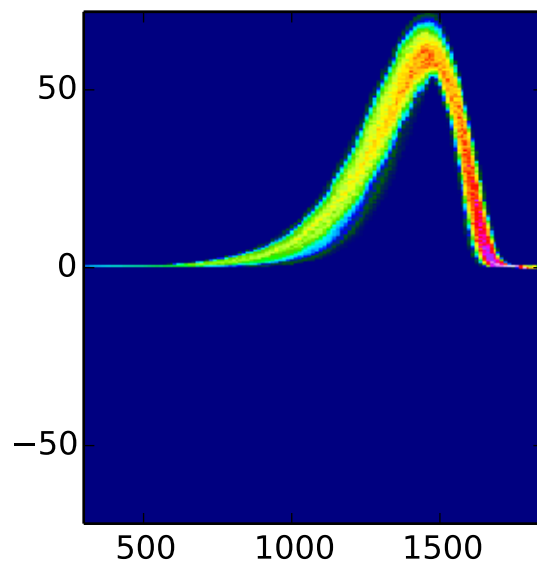
Curvature: -2800 : -2000



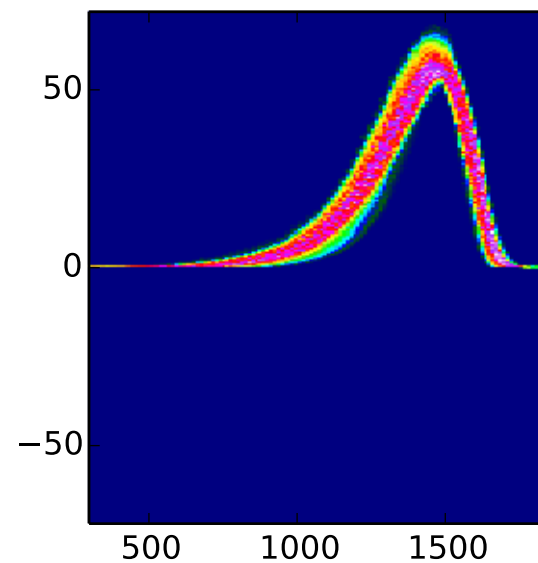
Curvature: -2000 : -1200



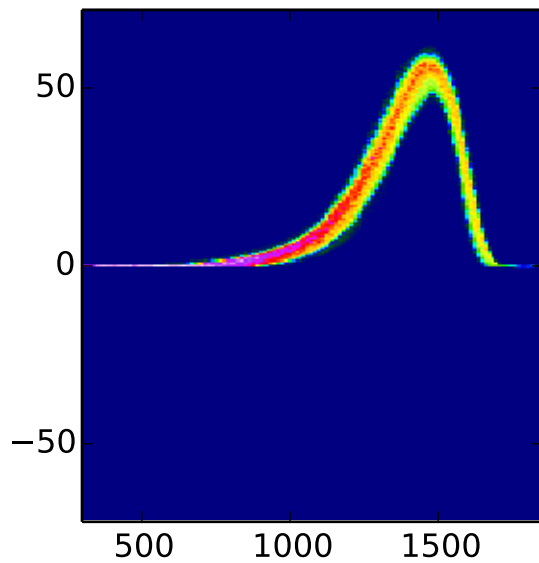
Curvature: -1200 : -400



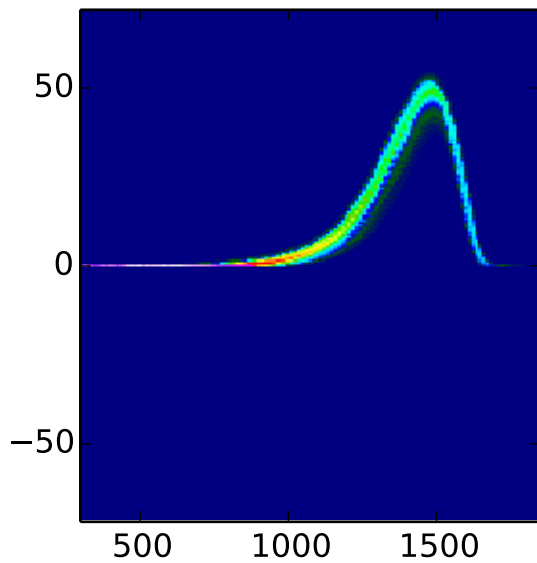
Curvature: -400 : 400



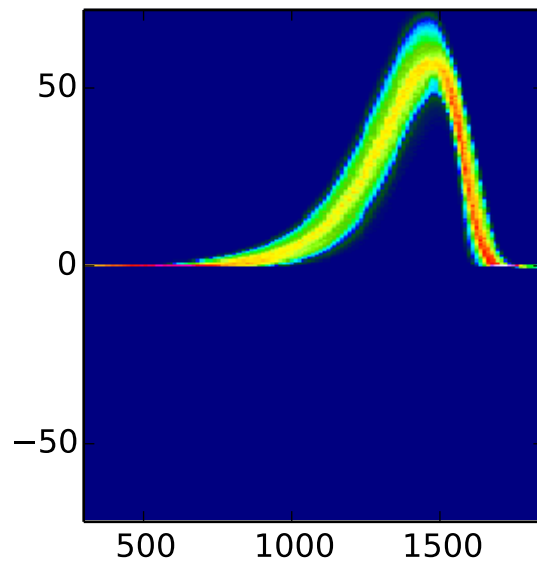
Curvature: 400 : 1200



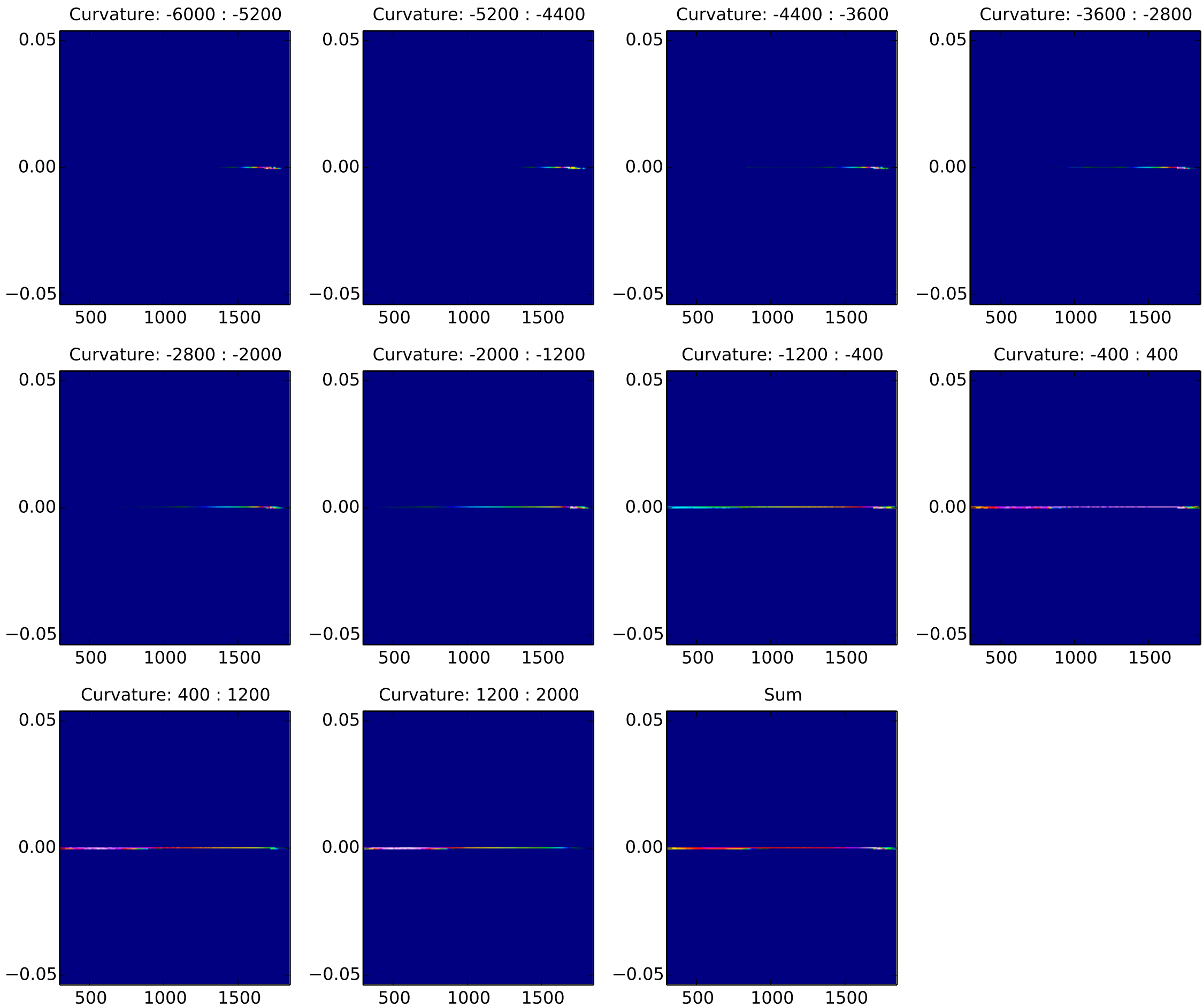
Curvature: 1200 : 2000



Sum

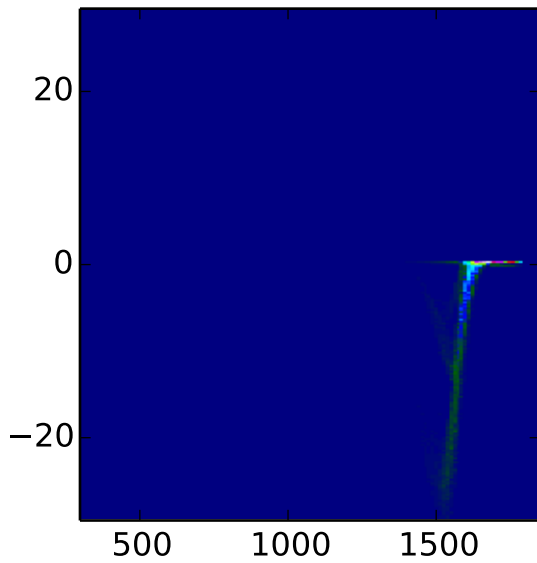


# Edge CH $\Leftrightarrow$ HCCO

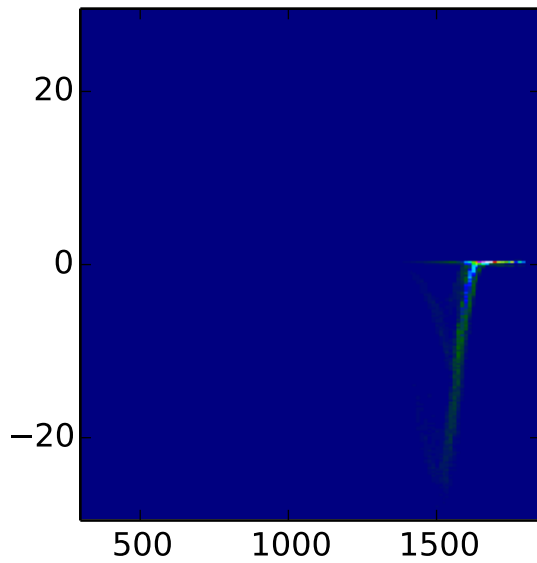


# Edge CO $\rightleftharpoons$ HCCO

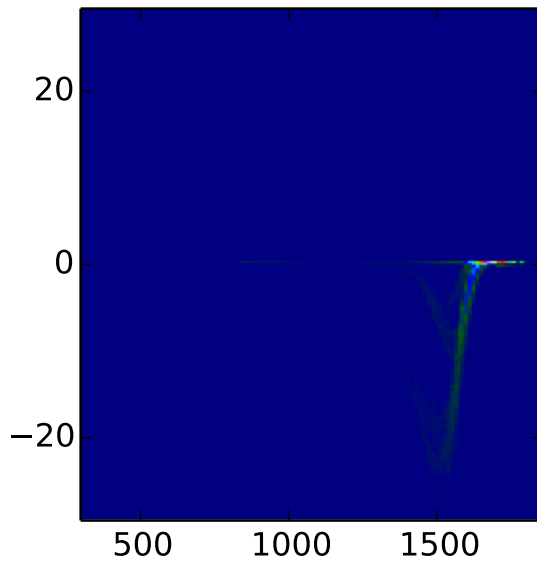
Curvature: -6000 : -5200



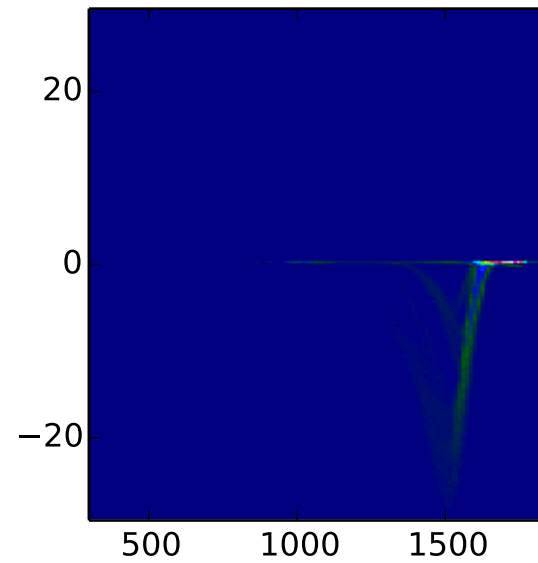
Curvature: -5200 : -4400



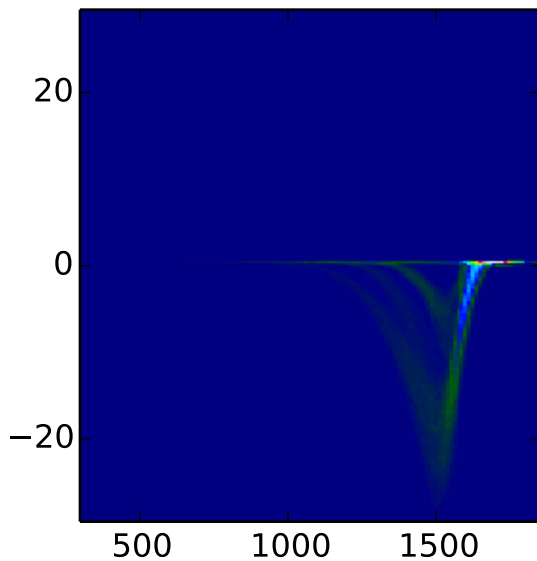
Curvature: -4400 : -3600



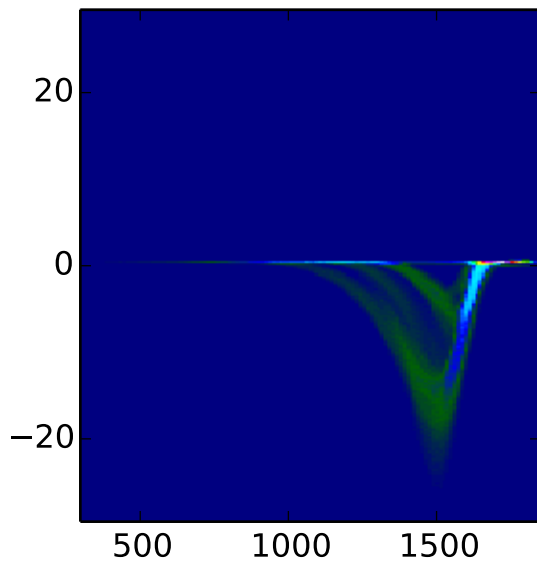
Curvature: -3600 : -2800



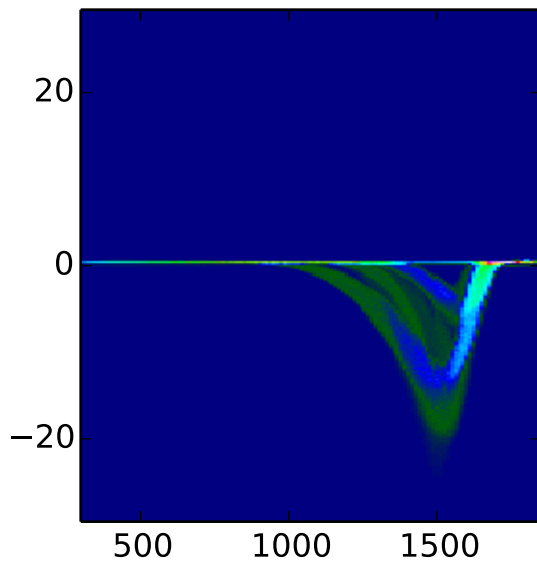
Curvature: -2800 : -2000



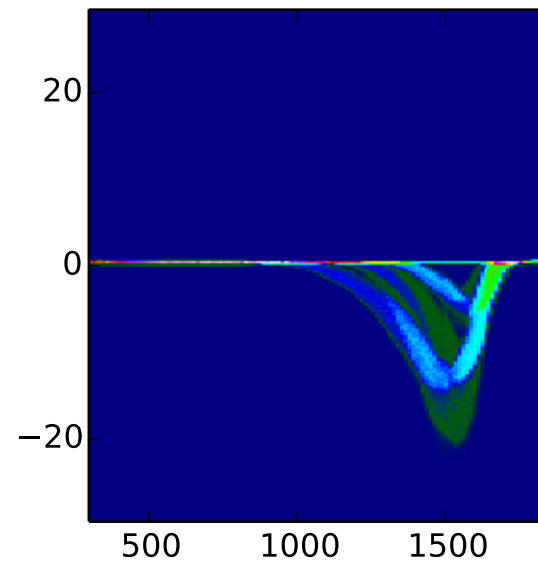
Curvature: -2000 : -1200



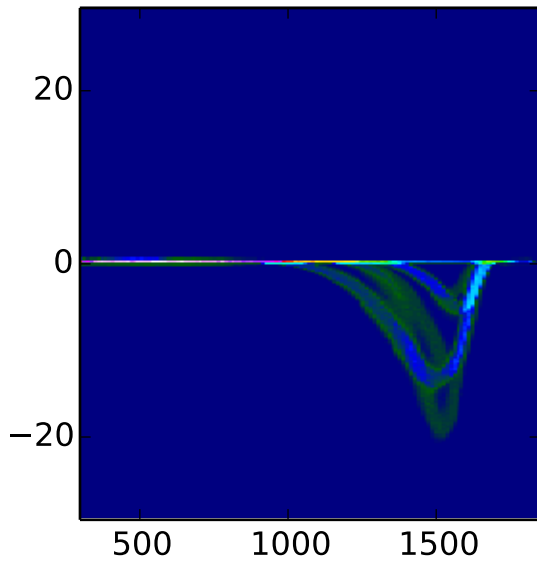
Curvature: -1200 : -400



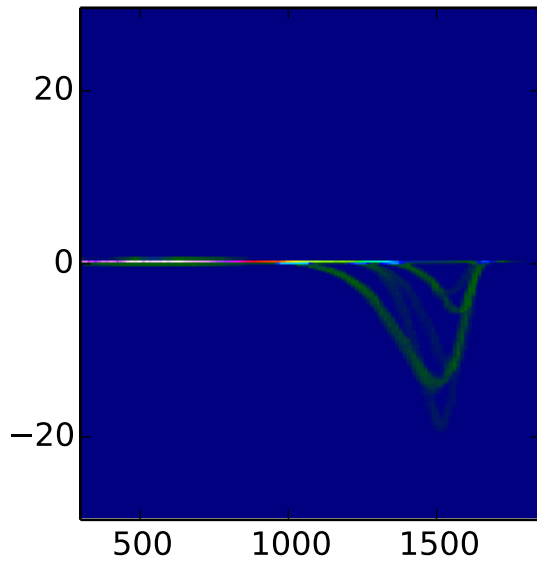
Curvature: -400 : 400



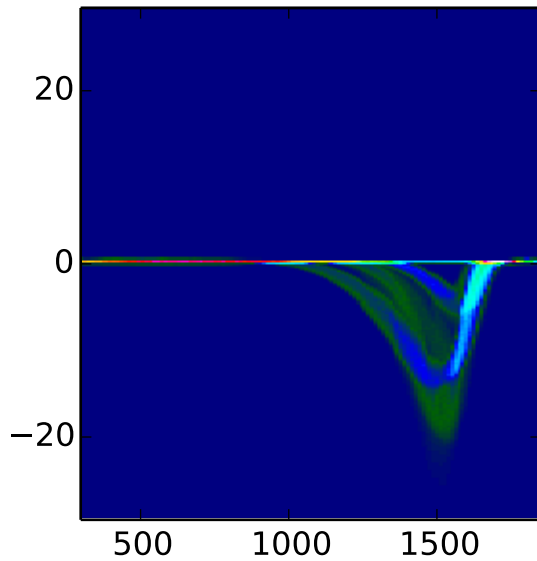
Curvature: 400 : 1200



Curvature: 1200 : 2000



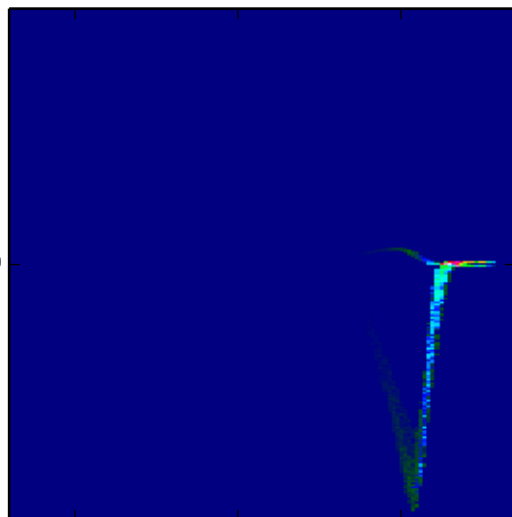
Sum



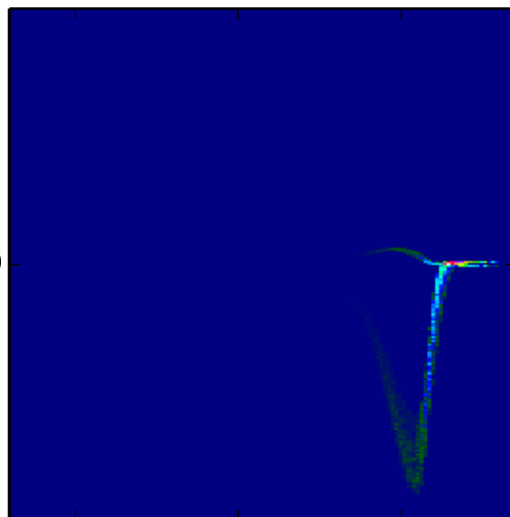


# Edge CH<sub>2</sub> $\rightleftharpoons$ CH<sub>2</sub>CO

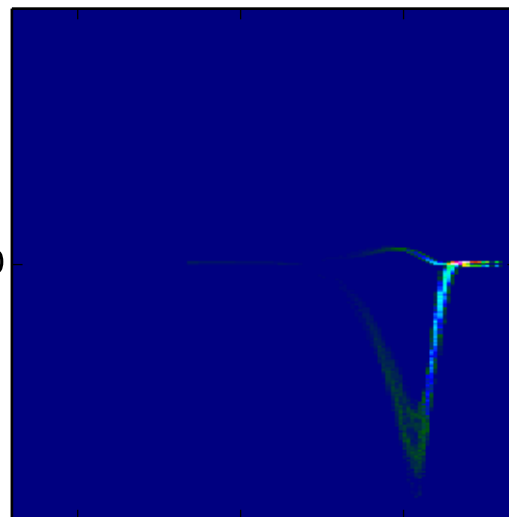
Curvature: -6000 : -5200



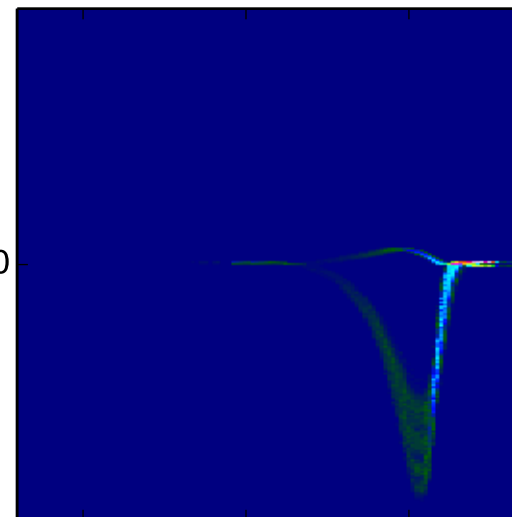
Curvature: -5200 : -4400



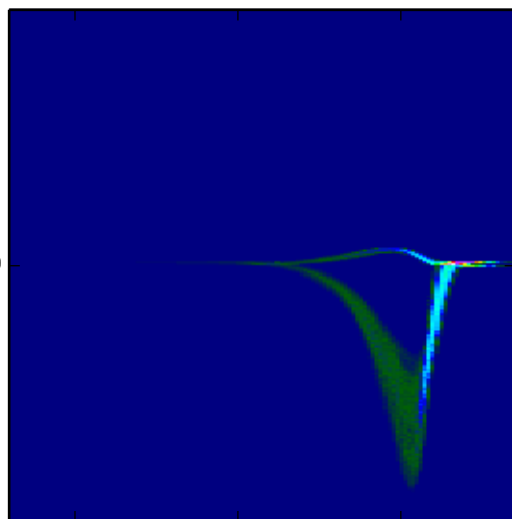
Curvature: -4400 : -3600



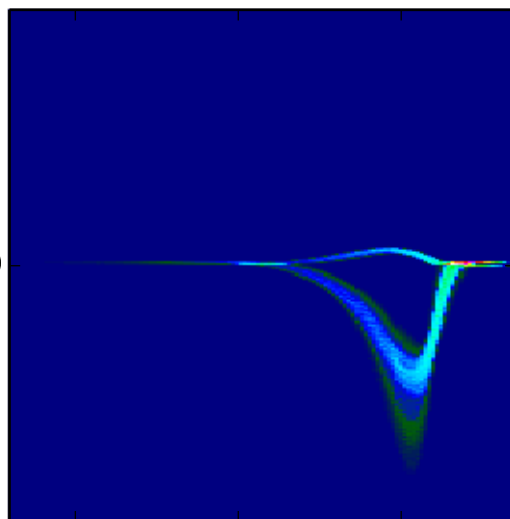
Curvature: -3600 : -2800



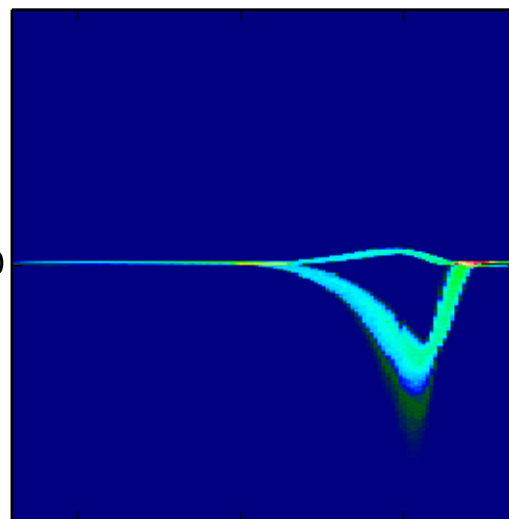
Curvature: -2800 : -2000



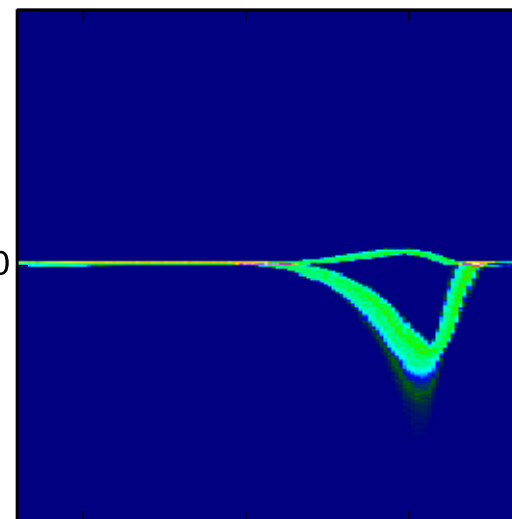
Curvature: -2000 : -1200



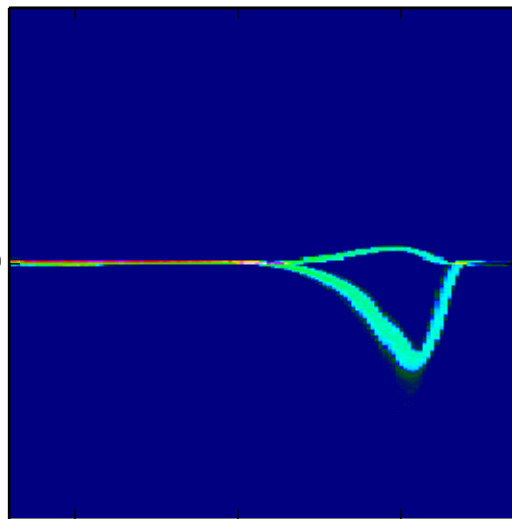
Curvature: -1200 : -400



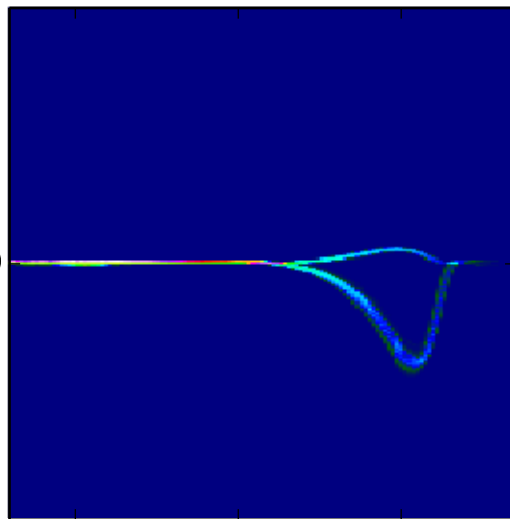
Curvature: -400 : 400



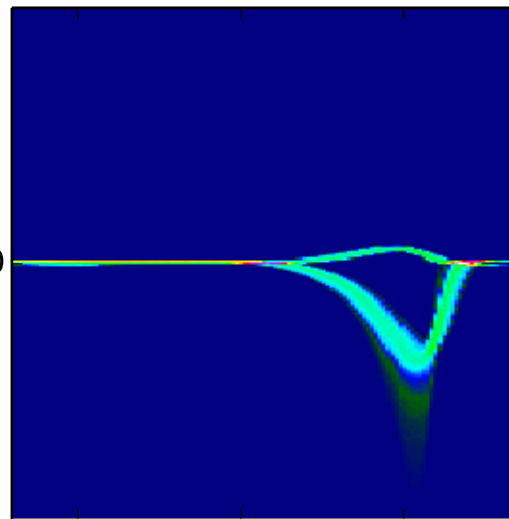
Curvature: 400 : 1200



Curvature: 1200 : 2000

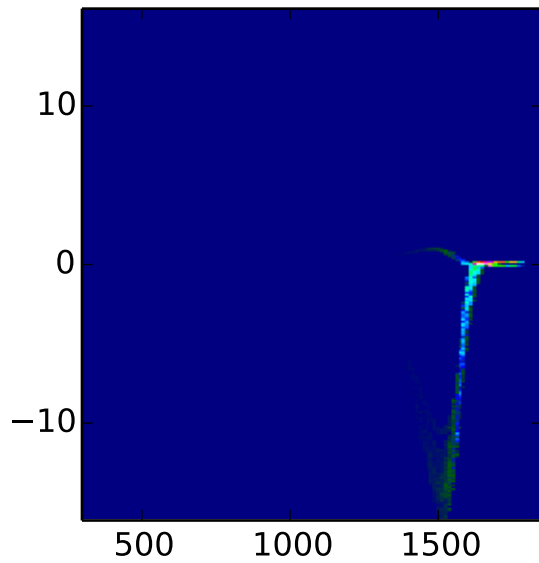


Sum

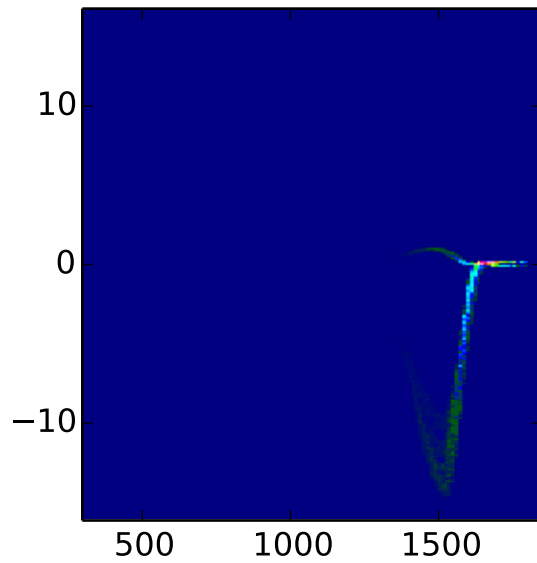


# Edge CO $\rightleftharpoons$ CH<sub>2</sub>CO

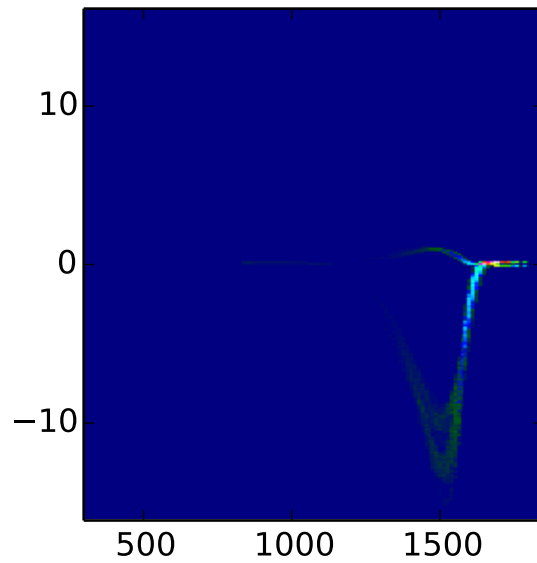
Curvature: -6000 : -5200



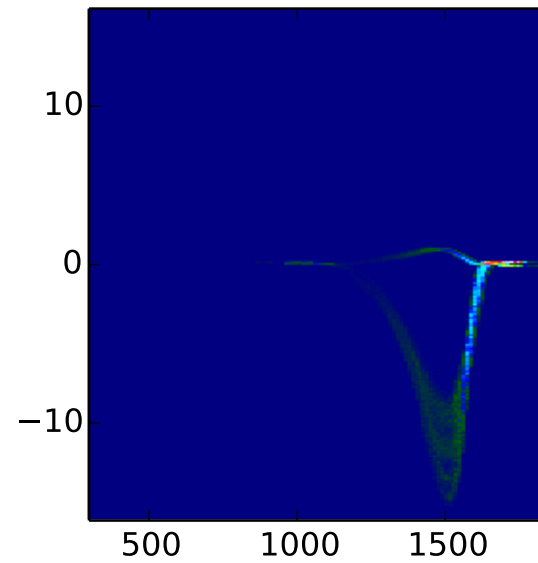
Curvature: -5200 : -4400



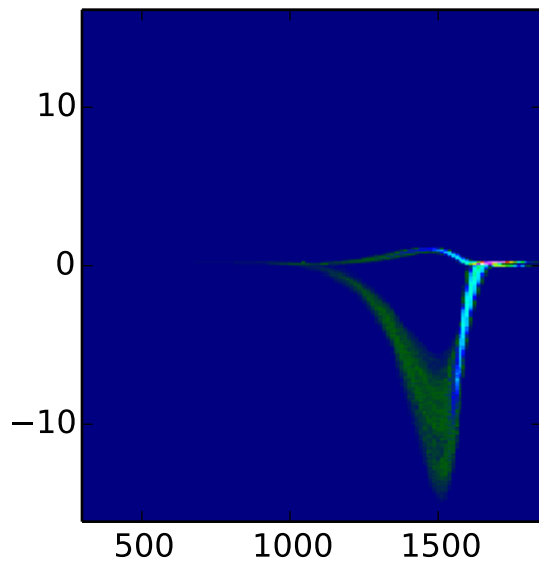
Curvature: -4400 : -3600



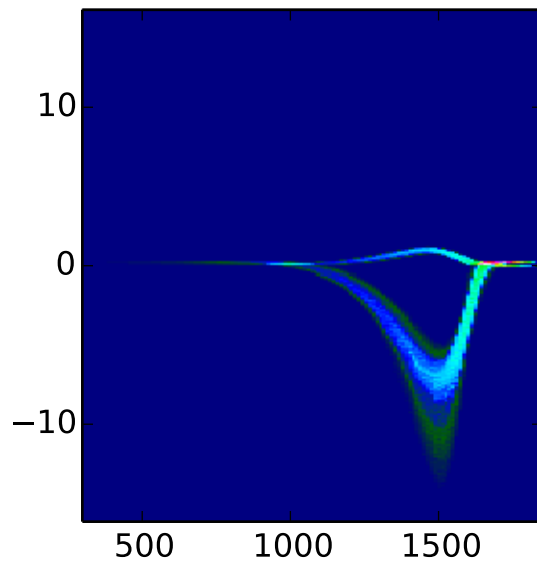
Curvature: -3600 : -2800



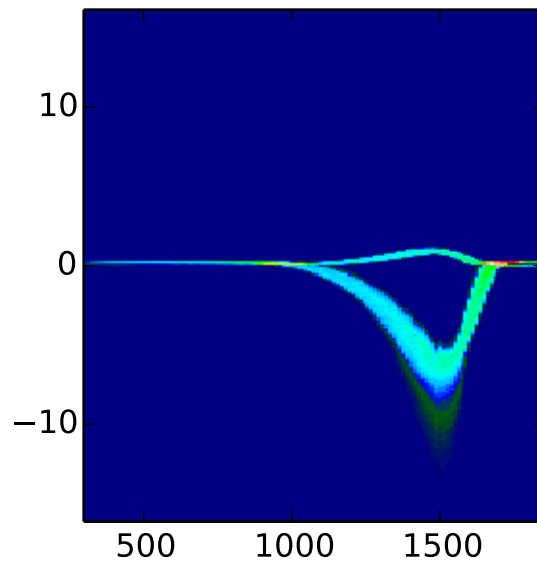
Curvature: -2800 : -2000



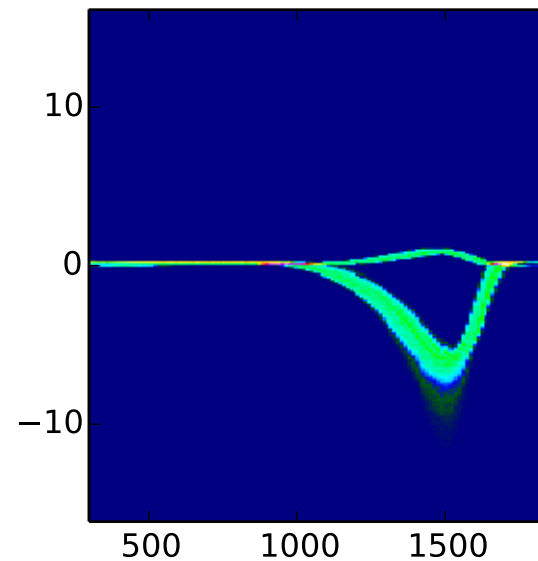
Curvature: -2000 : -1200



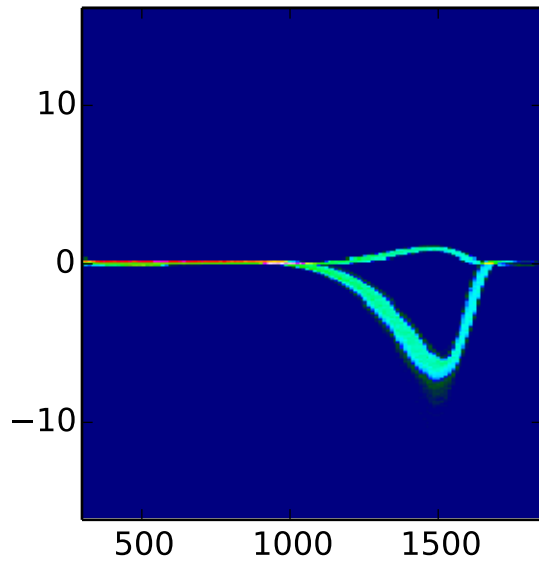
Curvature: -1200 : -400



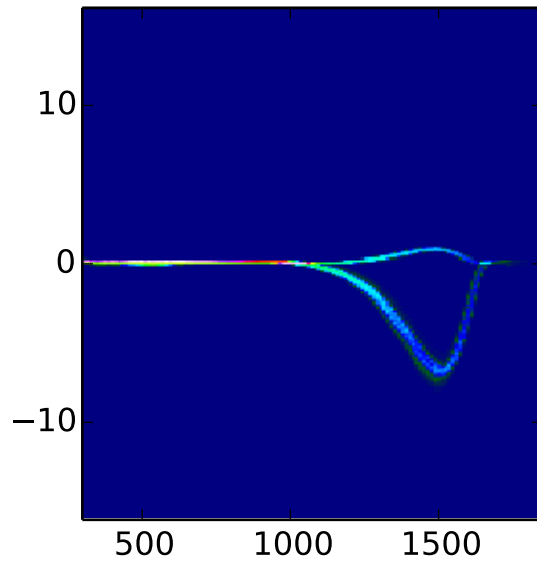
Curvature: -400 : 400



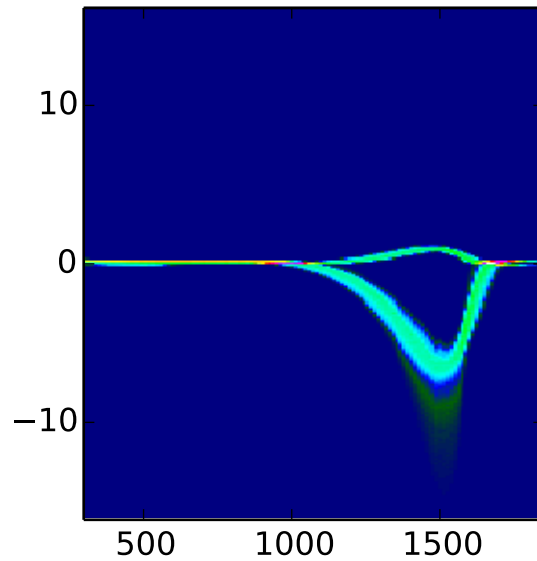
Curvature: 400 : 1200



Curvature: 1200 : 2000

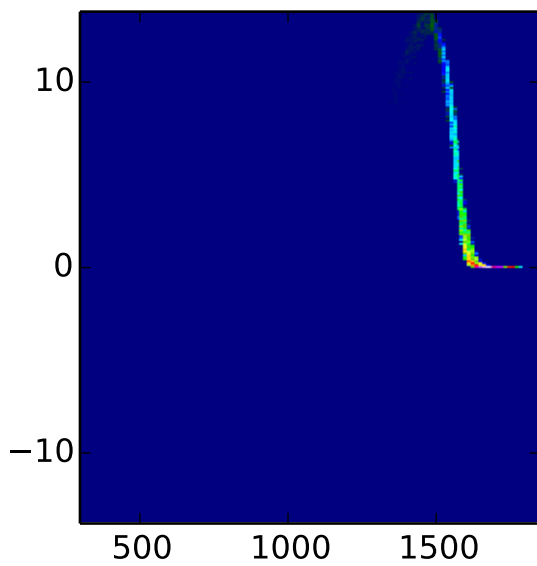


Sum

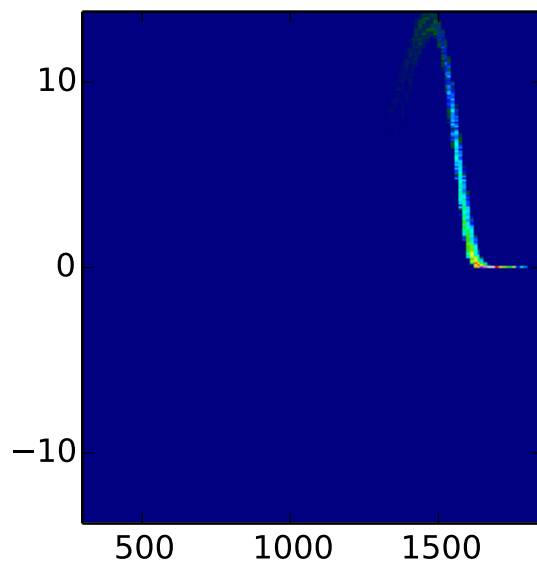


# Edge CH<sub>2</sub>(S) $\rightleftharpoons$ CH<sub>3</sub>OH

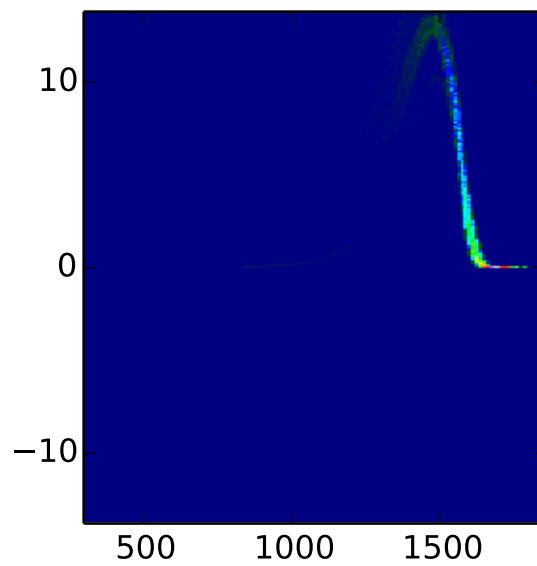
Curvature: -6000 : -5200



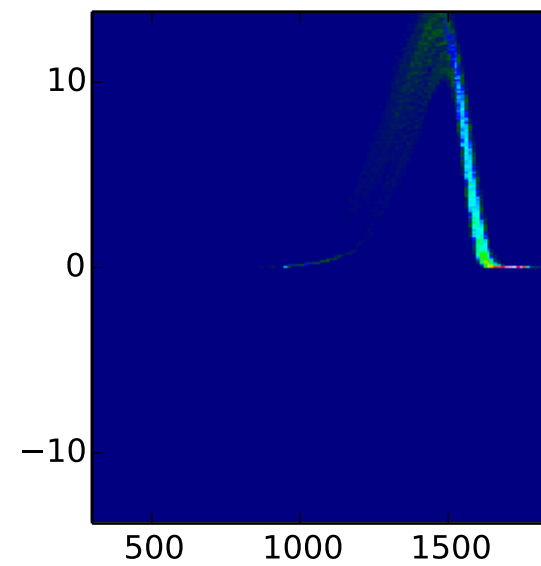
Curvature: -5200 : -4400



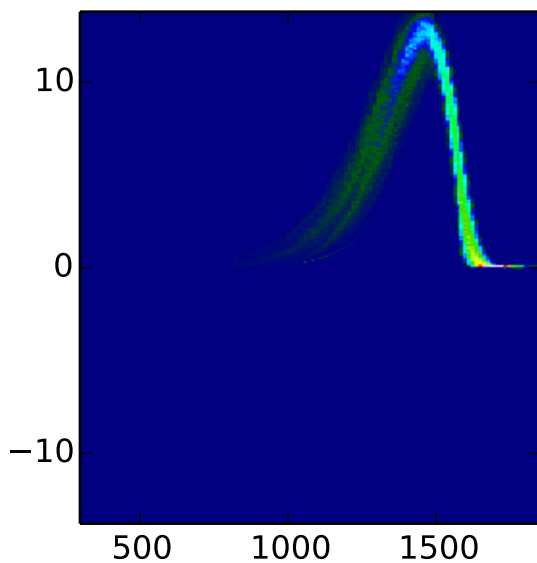
Curvature: -4400 : -3600



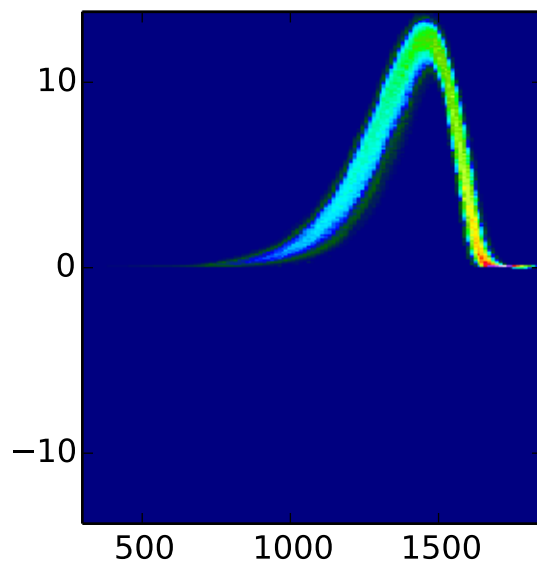
Curvature: -3600 : -2800



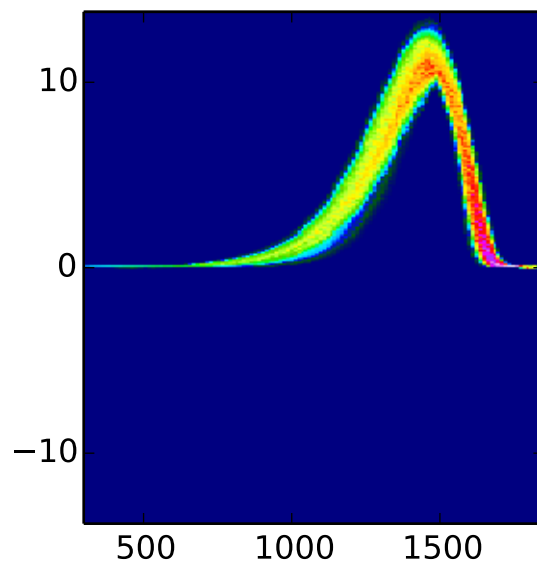
Curvature: -2800 : -2000



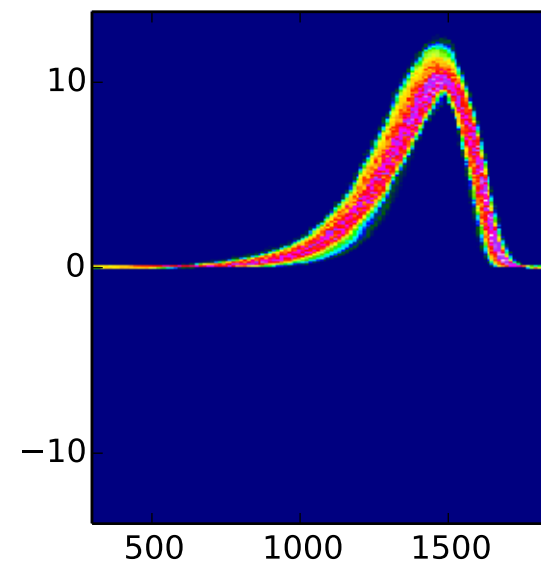
Curvature: -2000 : -1200



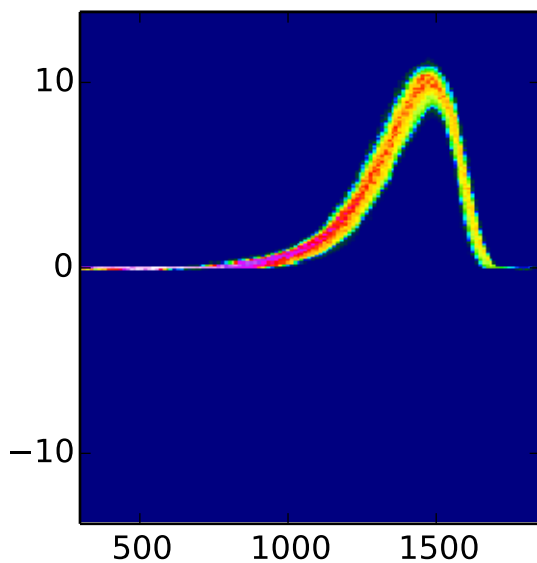
Curvature: -1200 : -400



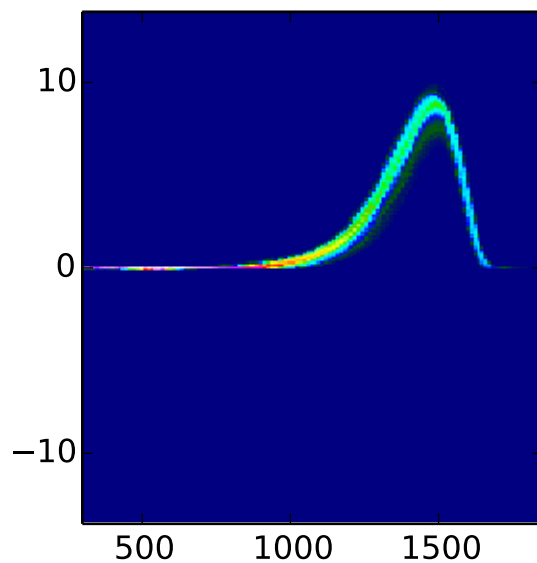
Curvature: -400 : 400



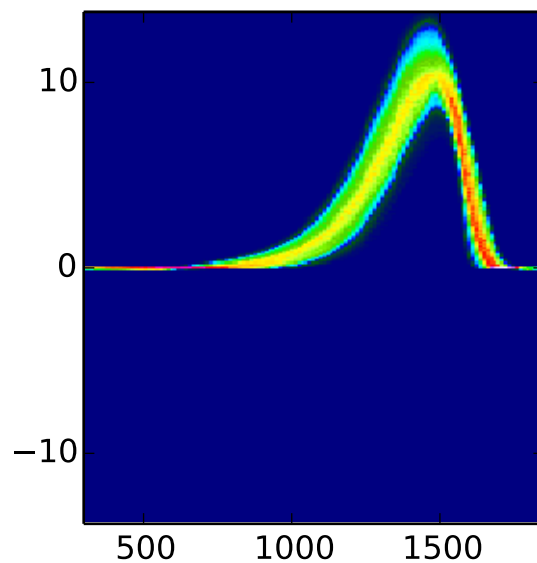
Curvature: 400 : 1200



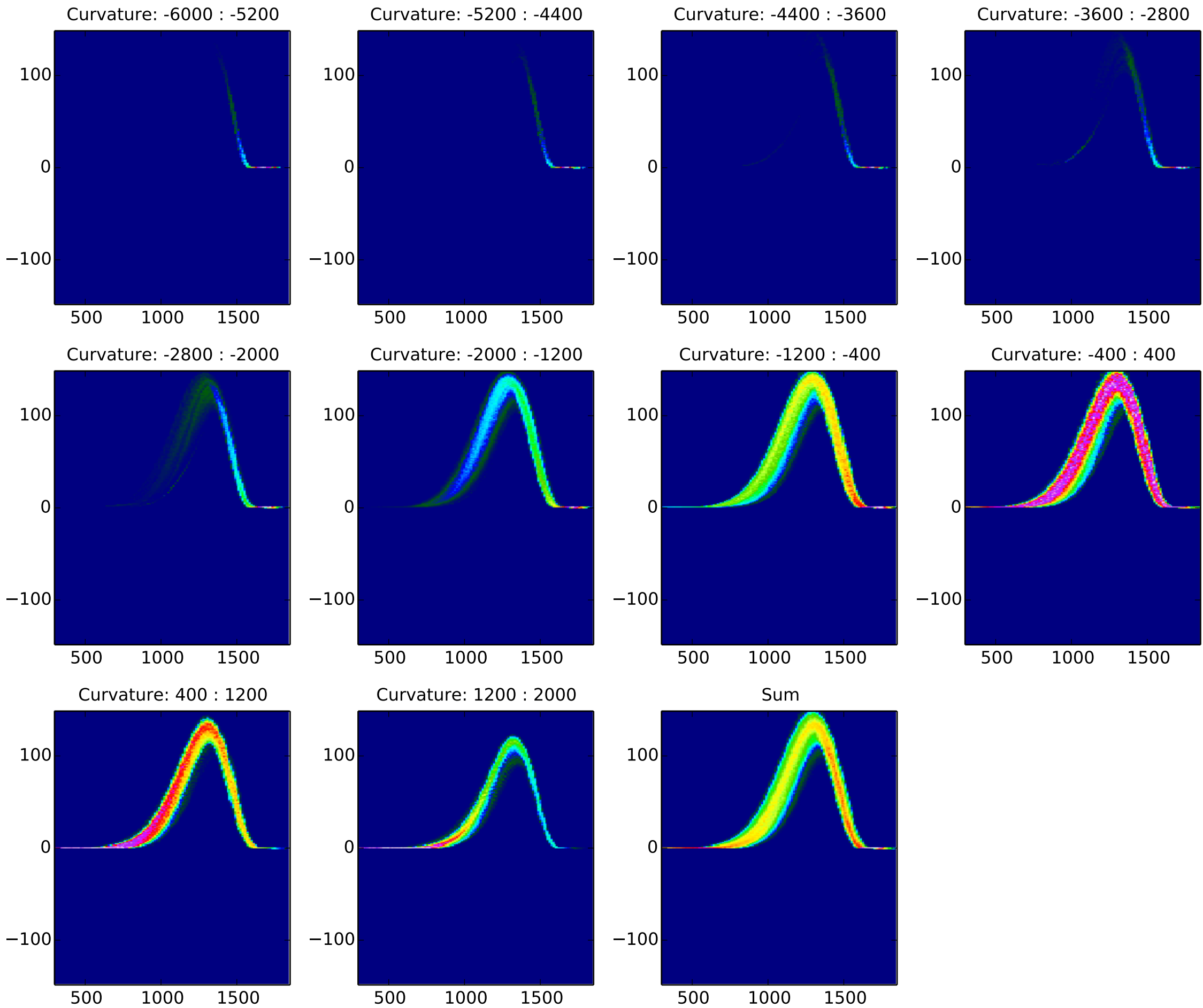
Curvature: 1200 : 2000



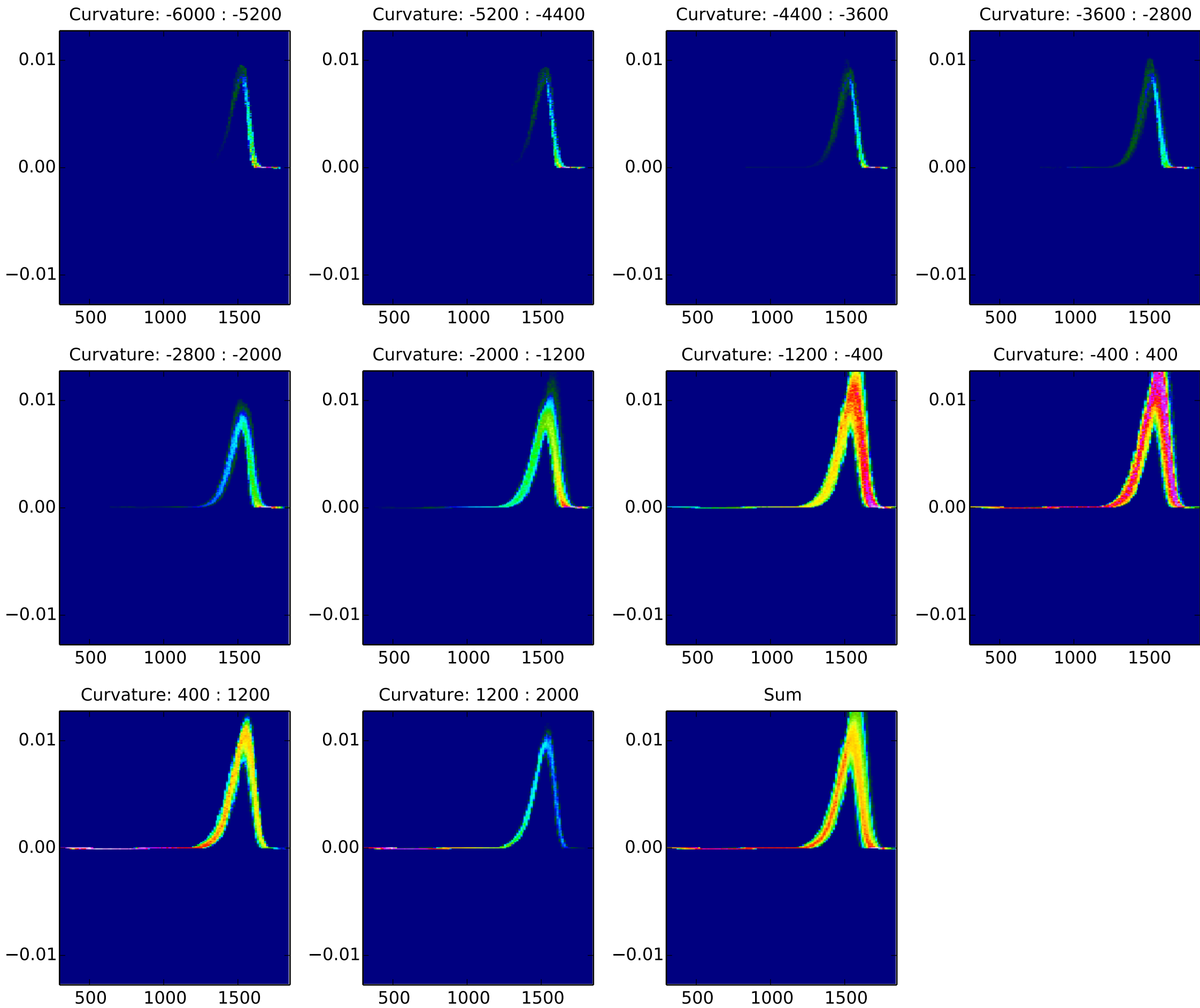
Sum



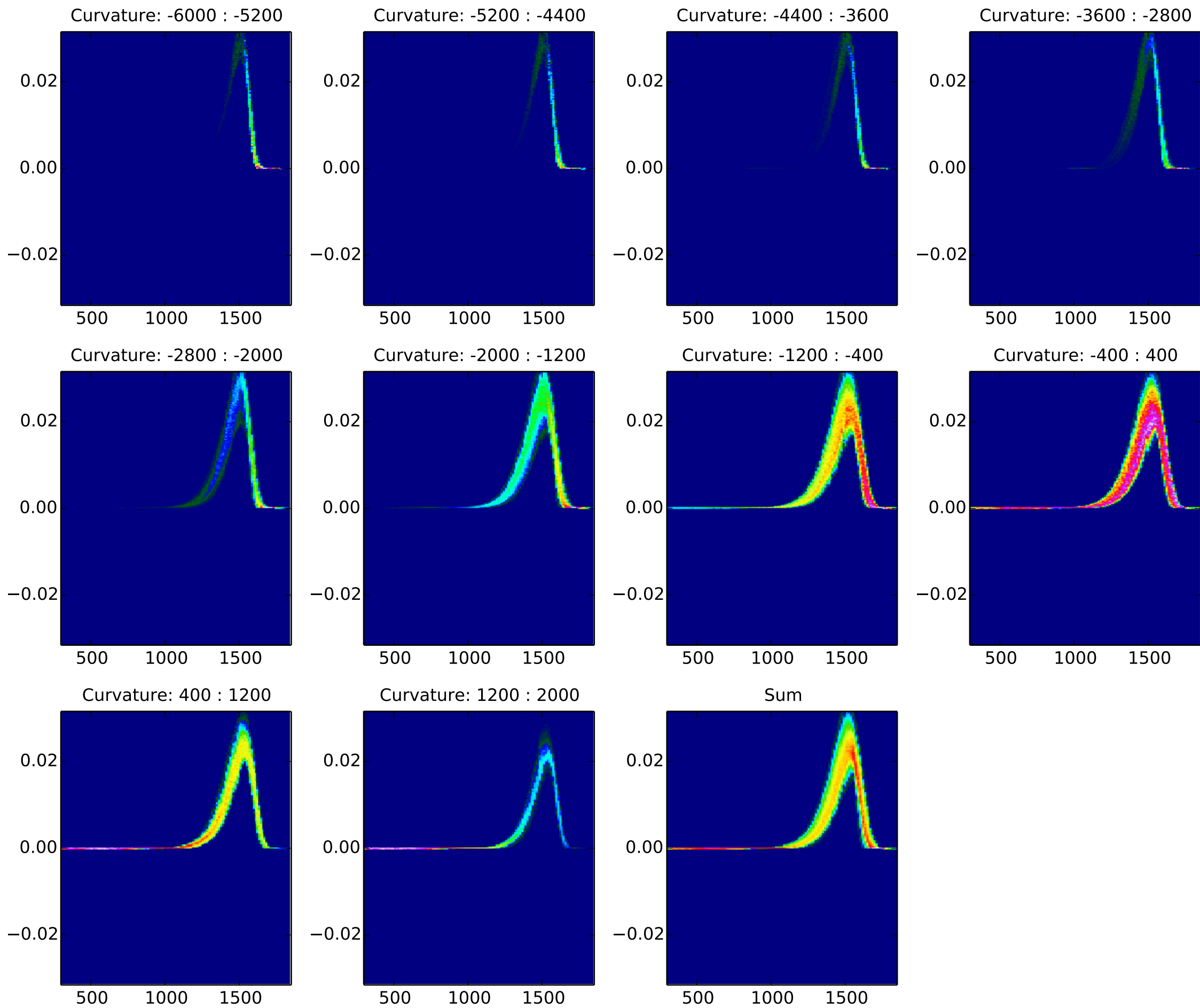
# Edge CH3 $\rightleftharpoons$ C2H6



# Edge C2H4 $\rightleftharpoons$ C2H2

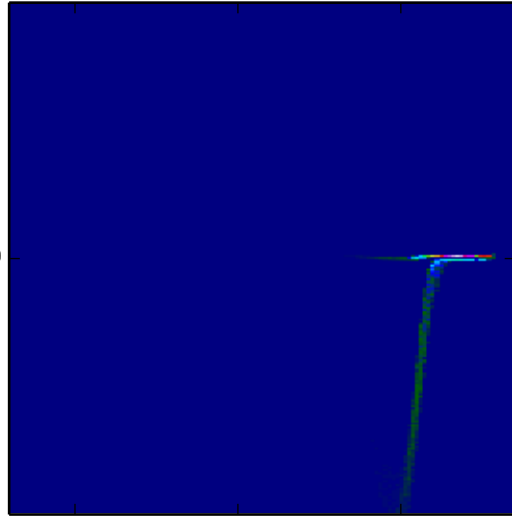


# Edge CH $\rightleftharpoons$ CH3

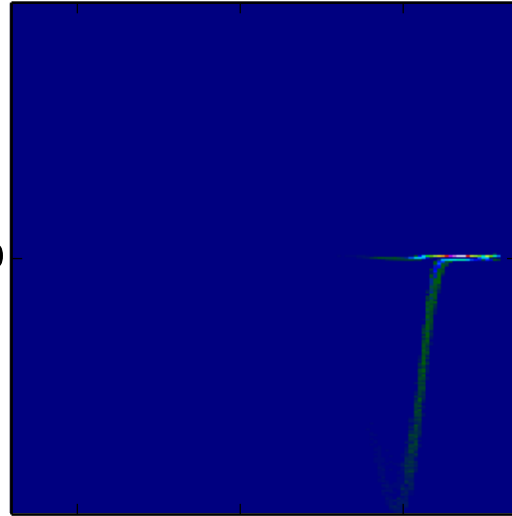


# Edge $\text{CH}_2\text{CO} \rightleftharpoons \text{CH}_2\text{CHO}$

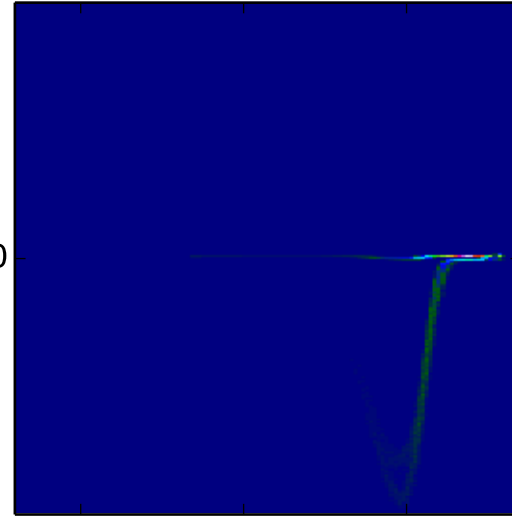
Curvature: -6000 : -5200



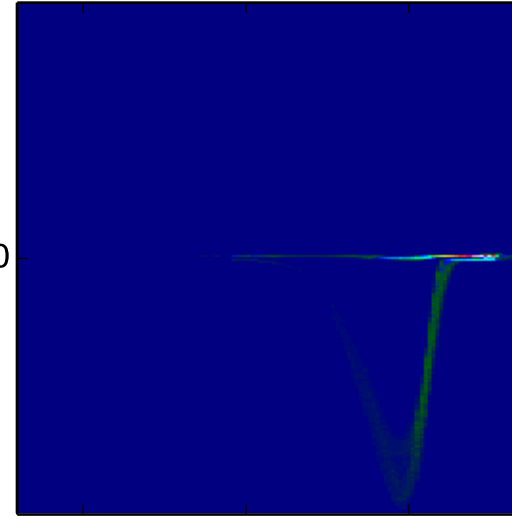
Curvature: -5200 : -4400



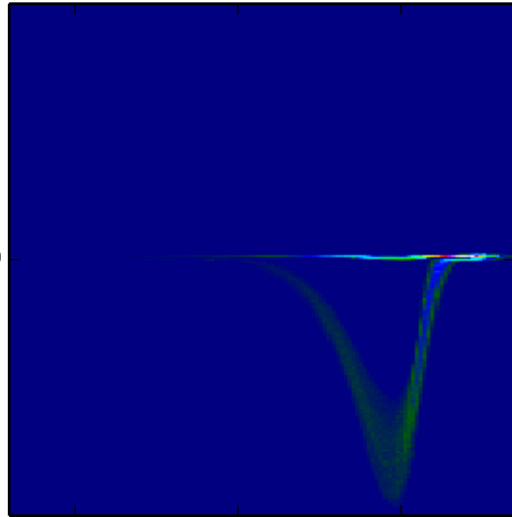
Curvature: -4400 : -3600



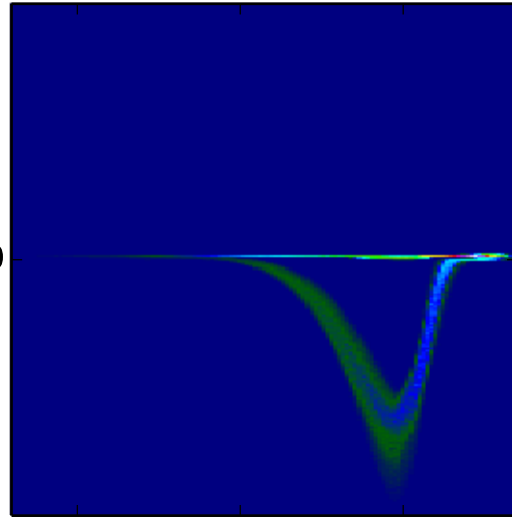
Curvature: -3600 : -2800



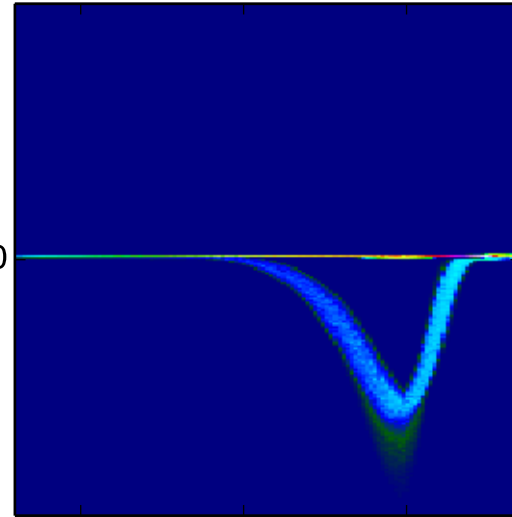
Curvature: -2800 : -2000



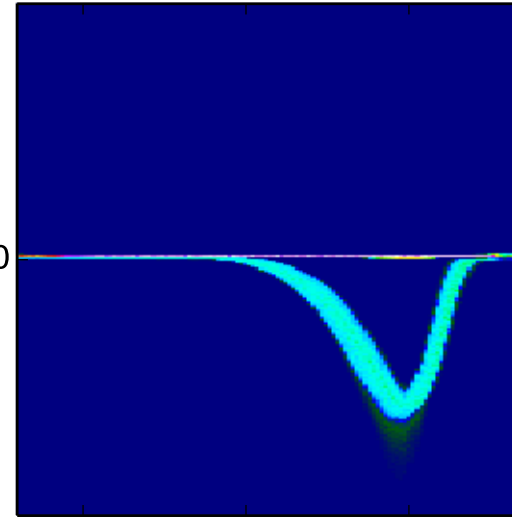
Curvature: -2000 : -1200



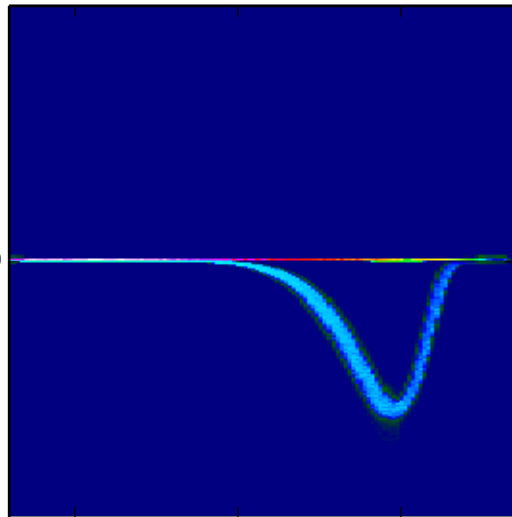
Curvature: -1200 : -400



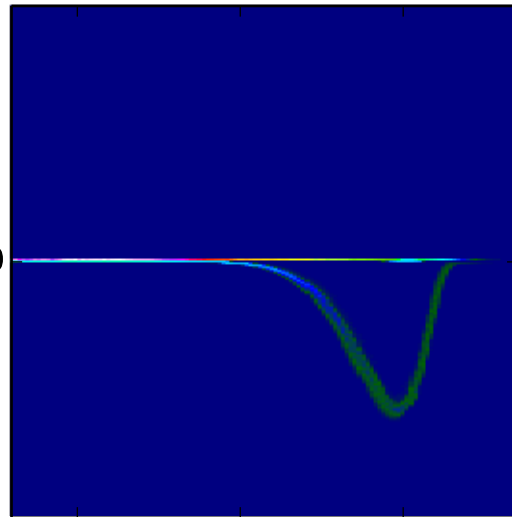
Curvature: -400 : 400



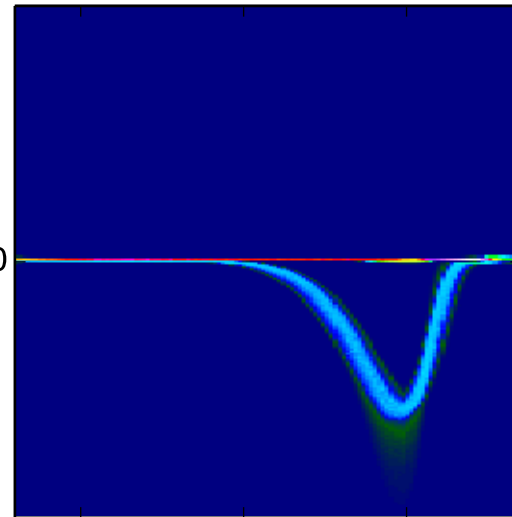
Curvature: 400 : 1200



Curvature: 1200 : 2000



Sum



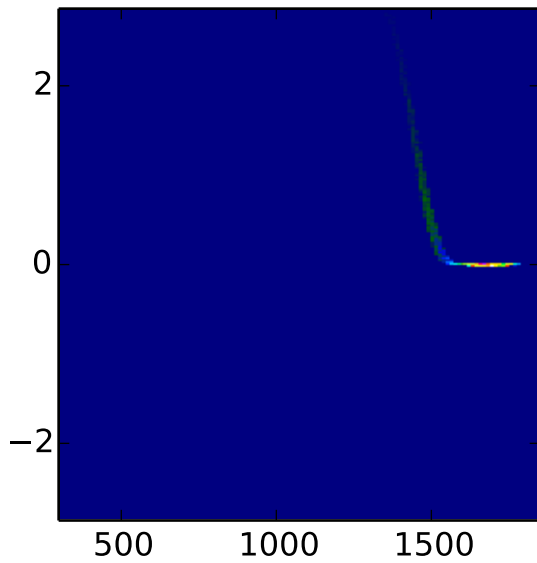
500 1000 1500

500 1000 1500

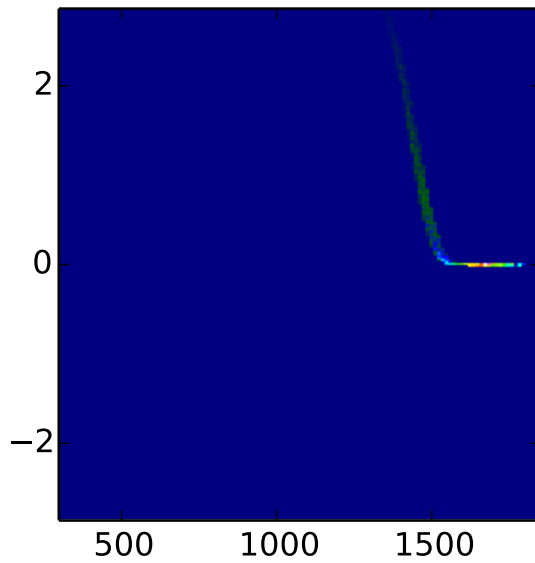
500 1000 1500

# Edge C2H5 $\rightleftharpoons$ C3H8

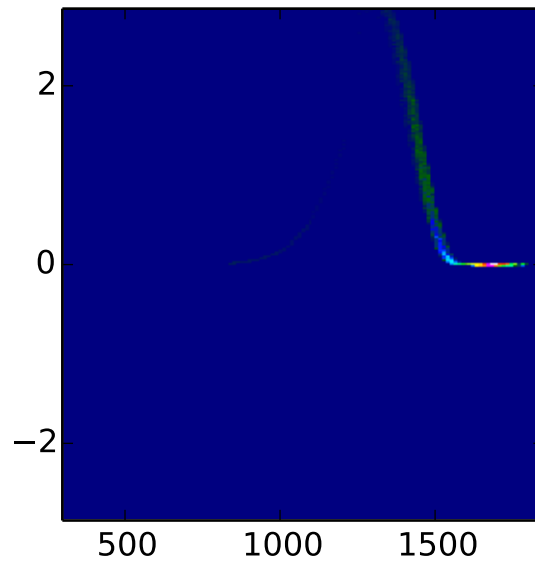
Curvature: -6000 : -5200



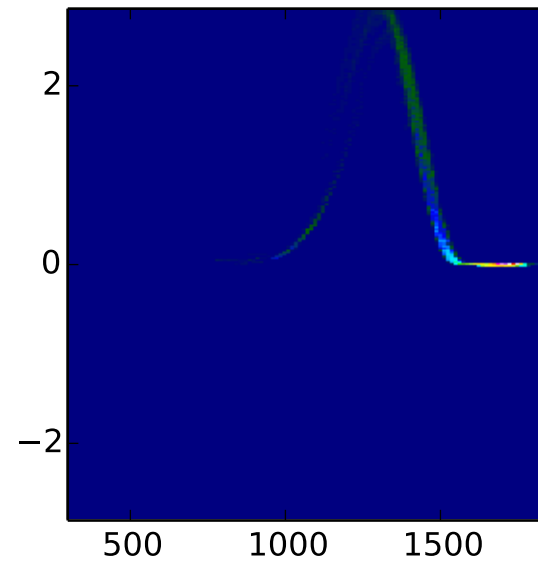
Curvature: -5200 : -4400



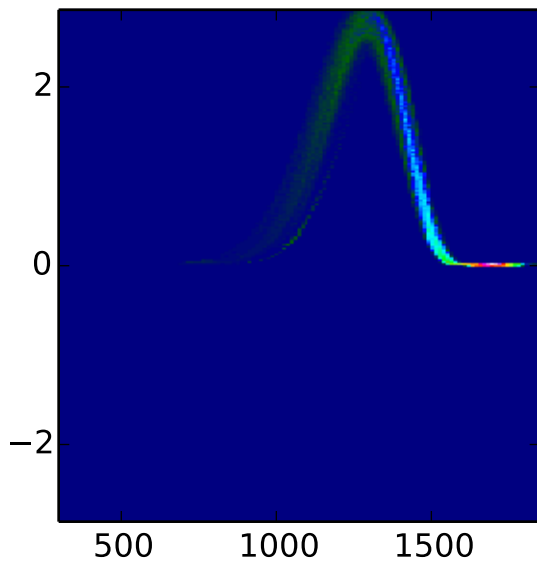
Curvature: -4400 : -3600



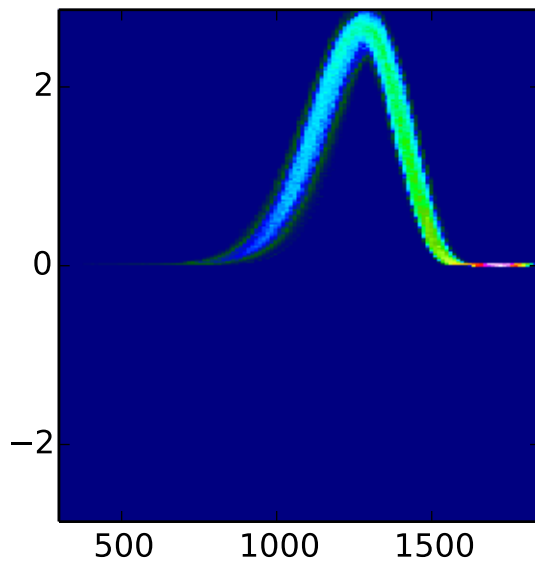
Curvature: -3600 : -2800



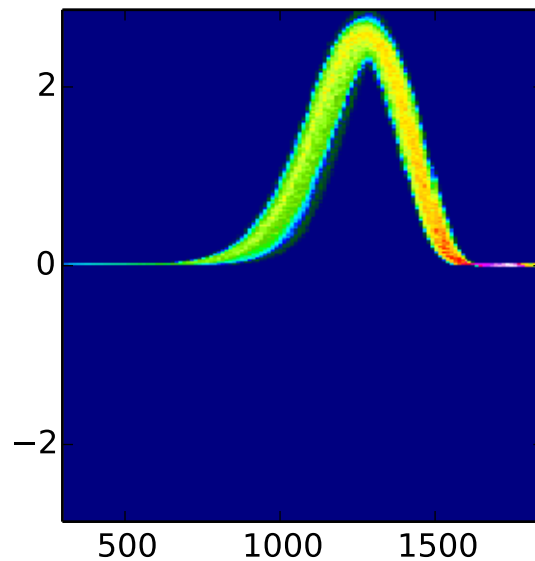
Curvature: -2800 : -2000



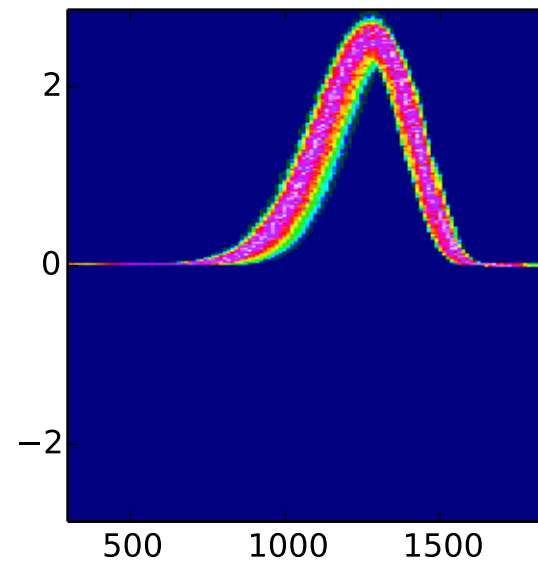
Curvature: -2000 : -1200



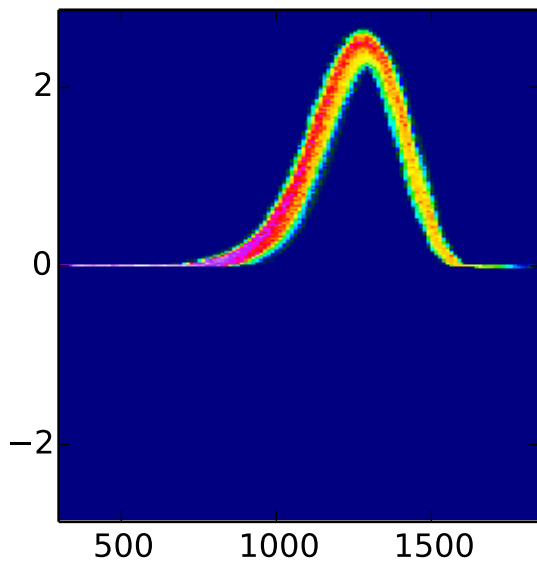
Curvature: -1200 : -400



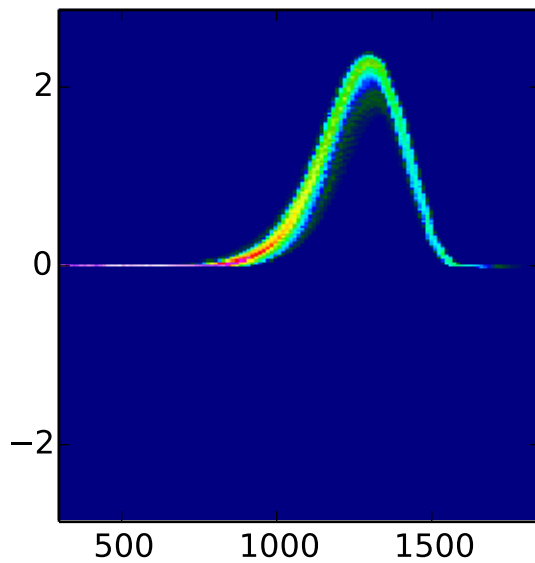
Curvature: -400 : 400



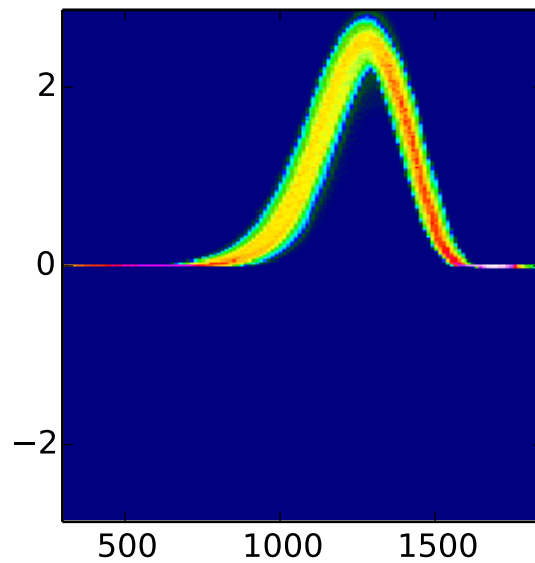
Curvature: 400 : 1200



Curvature: 1200 : 2000



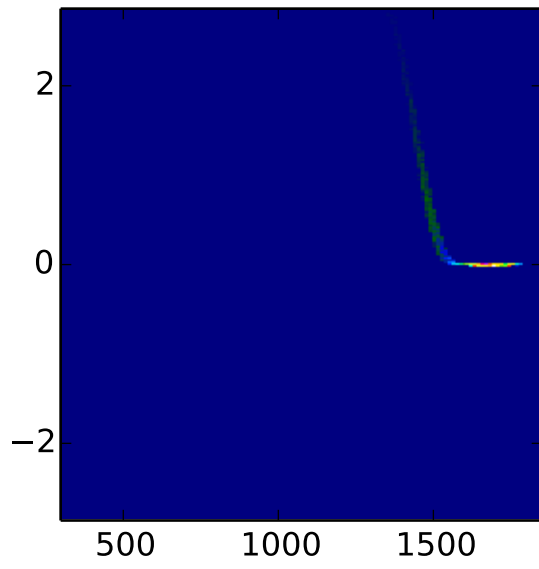
Sum



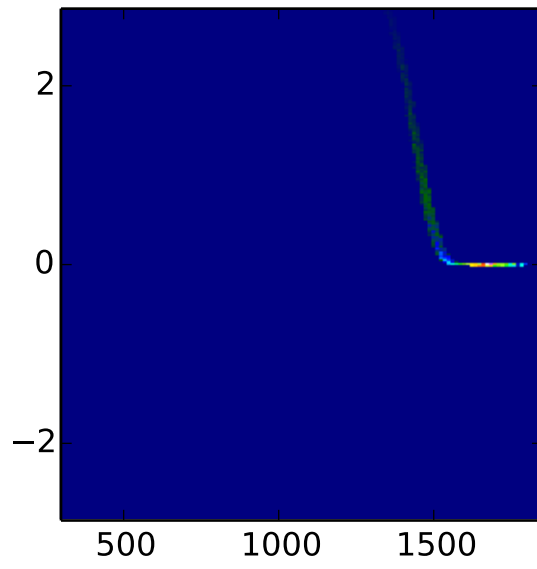


# Edge CH3 $\rightleftharpoons$ C3H8

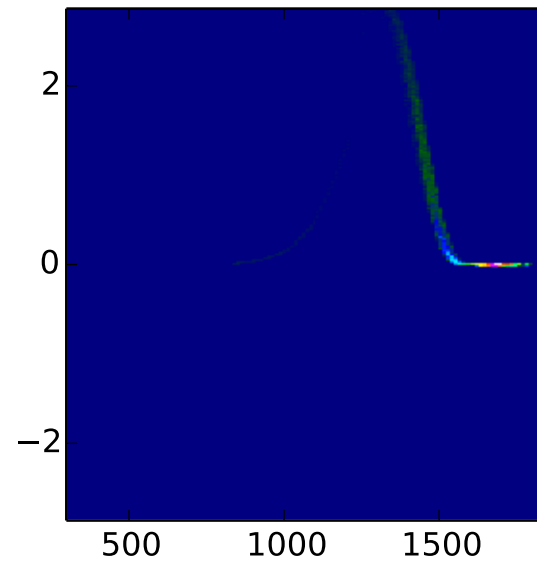
Curvature: -6000 : -5200



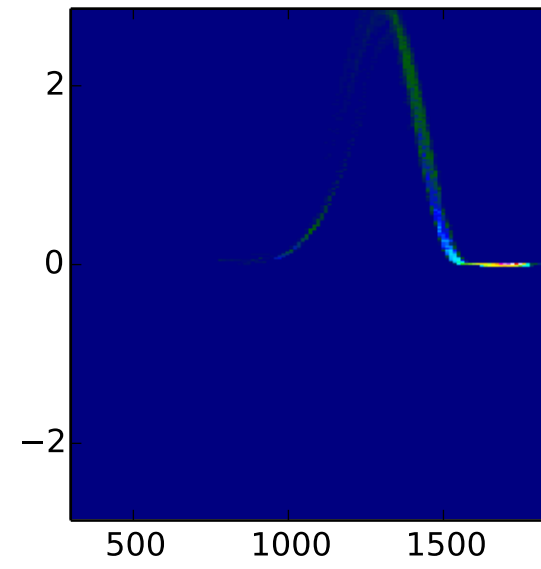
Curvature: -5200 : -4400



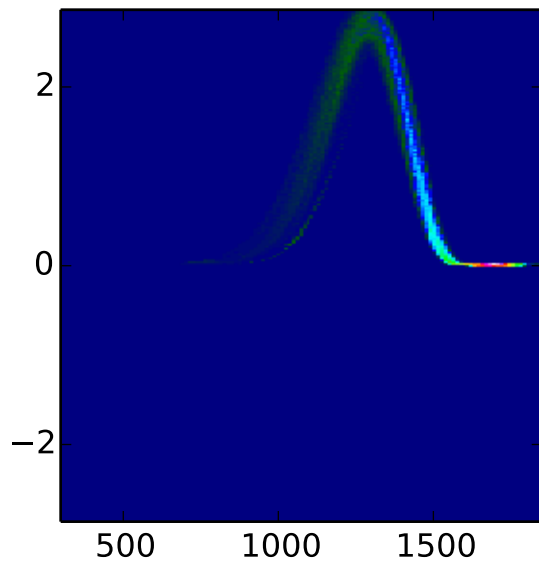
Curvature: -4400 : -3600



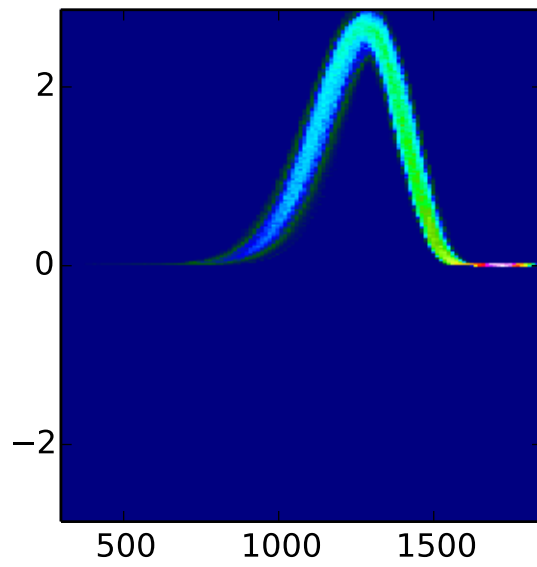
Curvature: -3600 : -2800



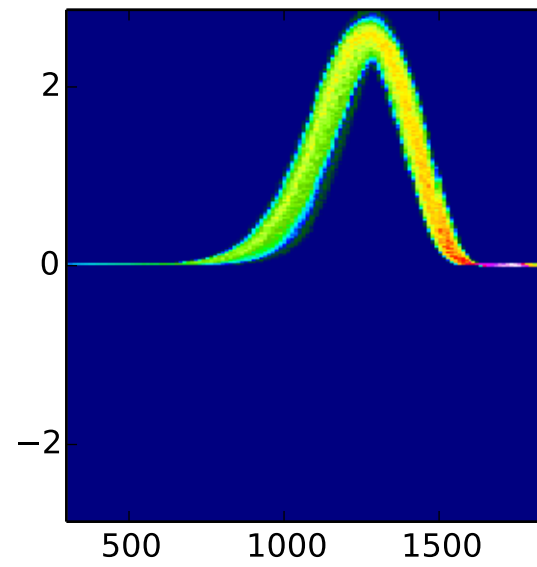
Curvature: -2800 : -2000



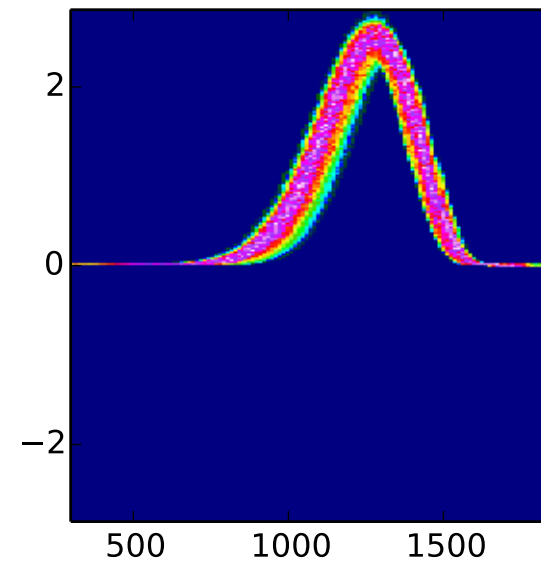
Curvature: -2000 : -1200



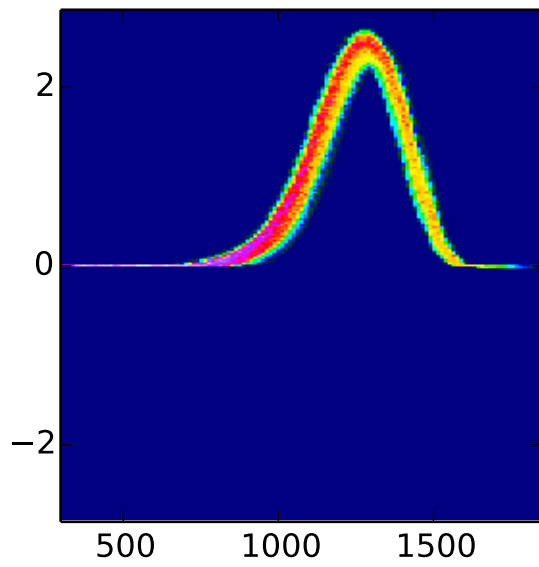
Curvature: -1200 : -400



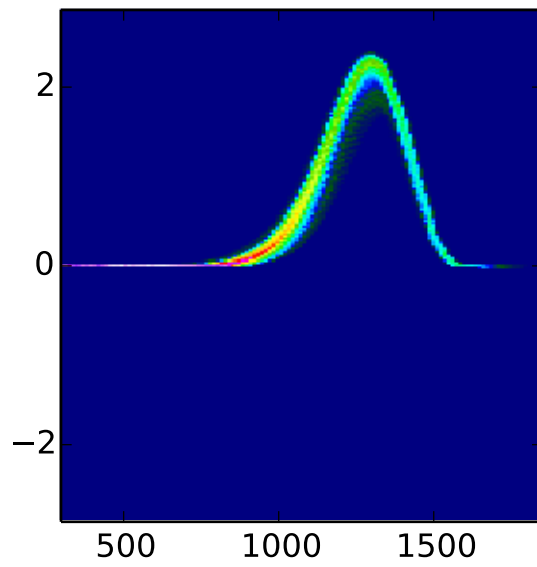
Curvature: -400 : 400



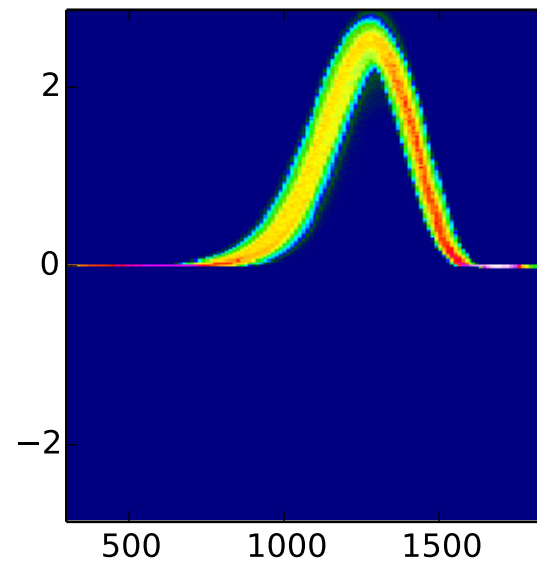
Curvature: 400 : 1200



Curvature: 1200 : 2000

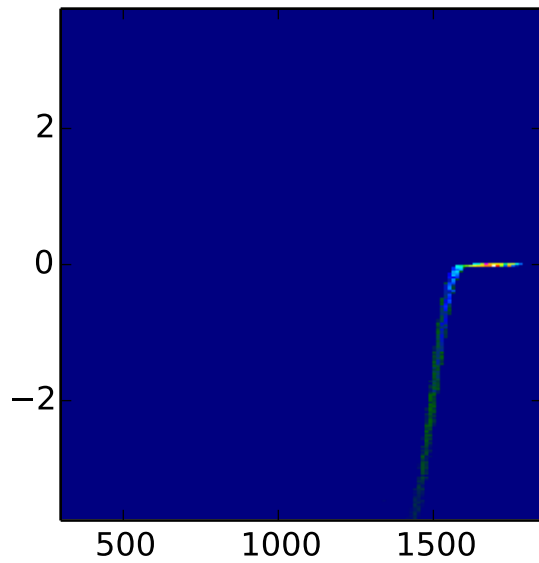


Sum

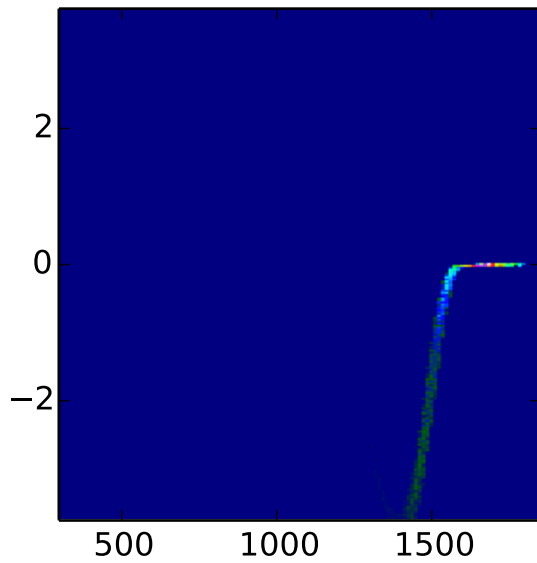


# Edge C2H4 $\rightleftharpoons$ C3H7

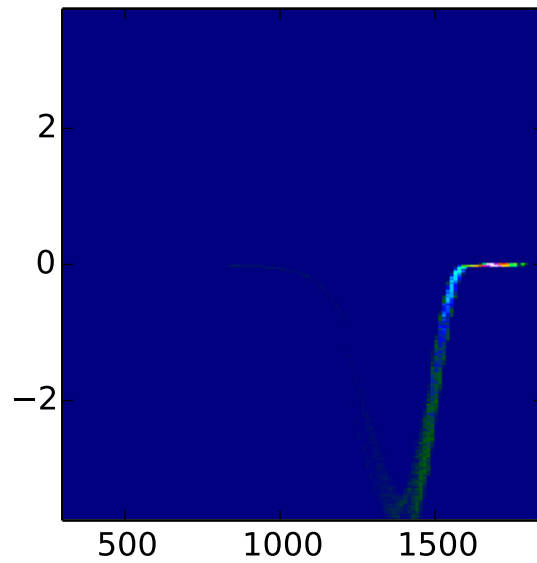
Curvature: -6000 : -5200



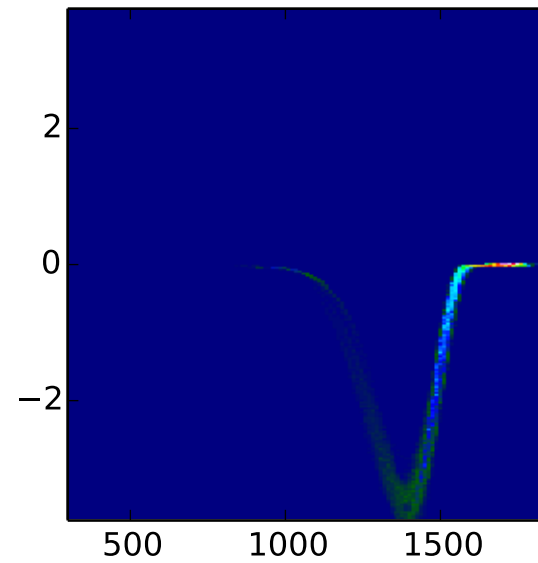
Curvature: -5200 : -4400



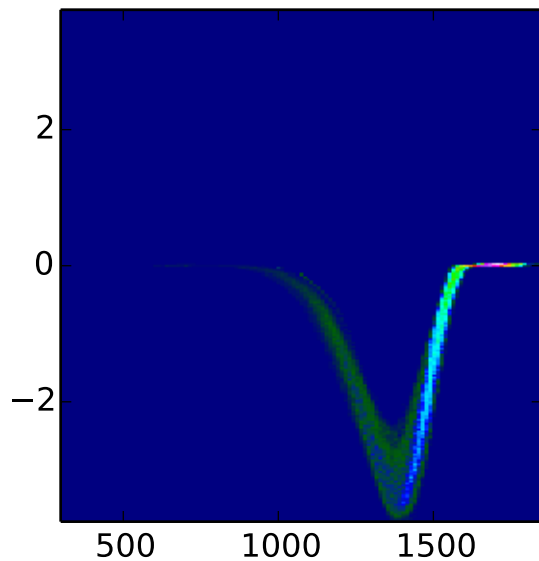
Curvature: -4400 : -3600



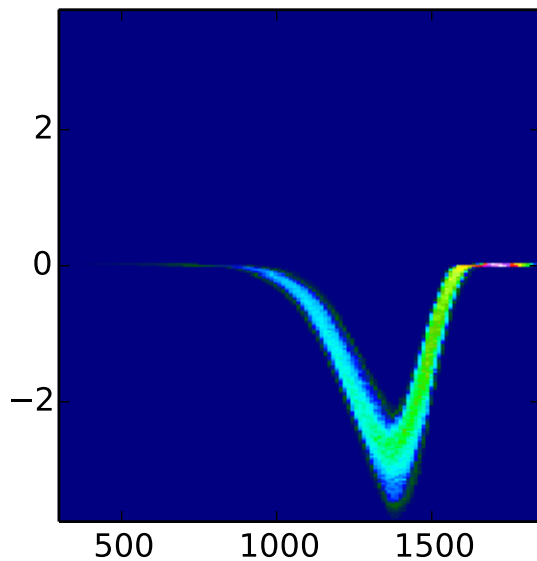
Curvature: -3600 : -2800



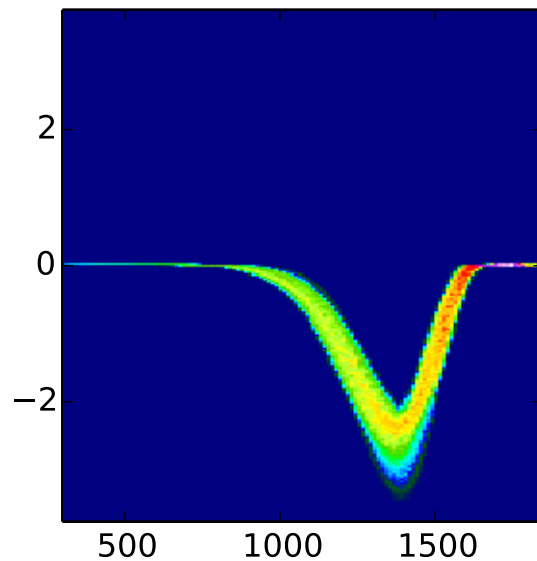
Curvature: -2800 : -2000



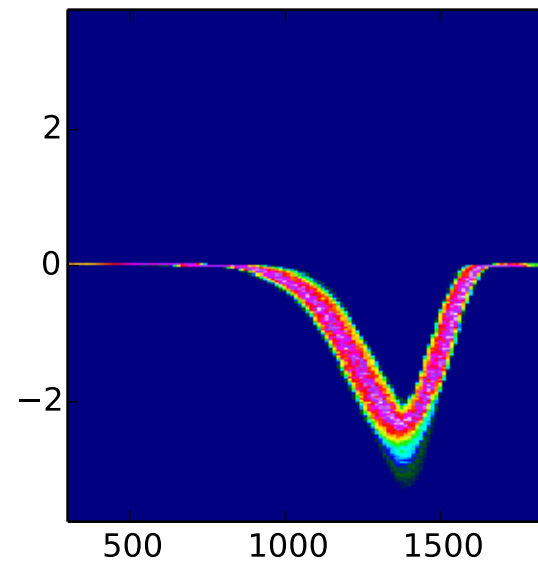
Curvature: -2000 : -1200



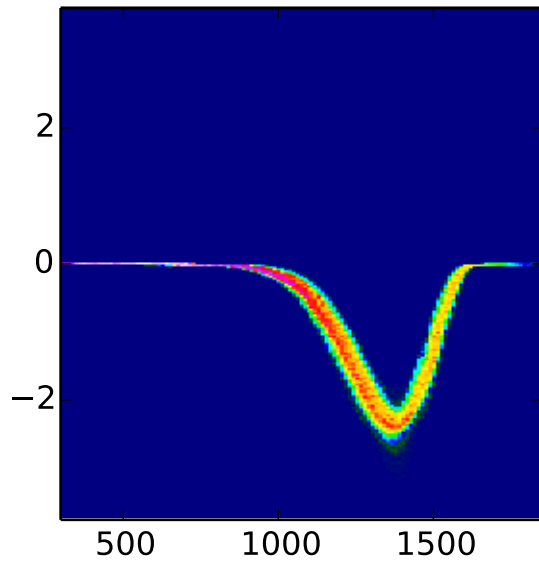
Curvature: -1200 : -400



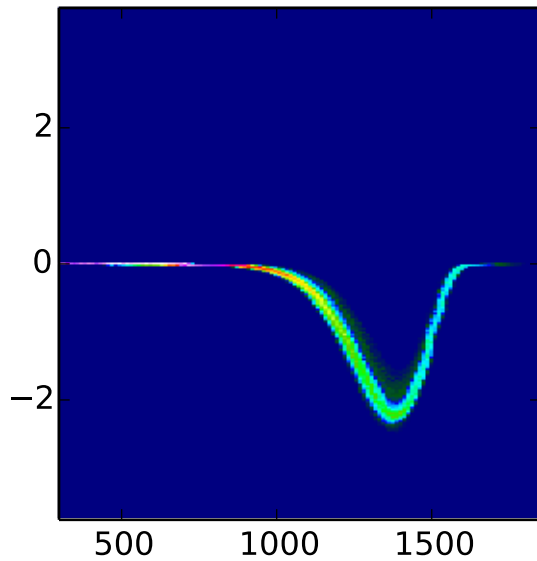
Curvature: -400 : 400



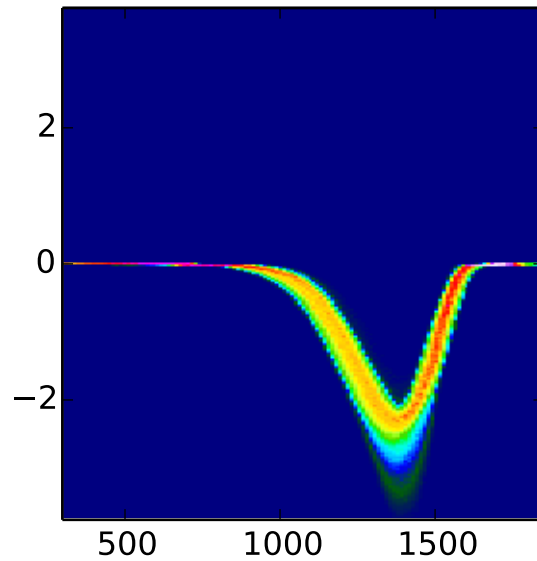
Curvature: 400 : 1200



Curvature: 1200 : 2000

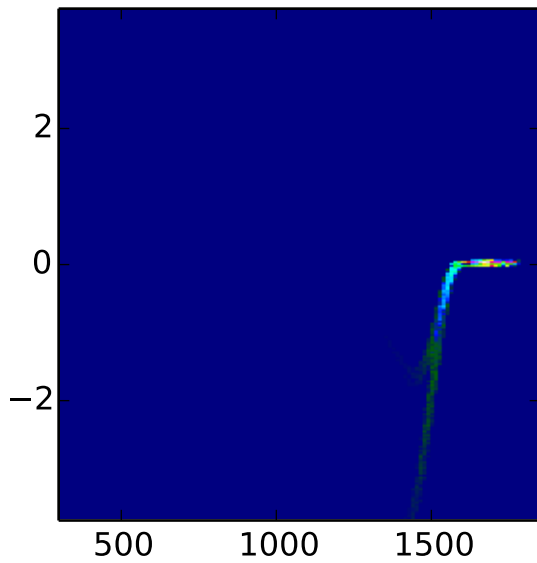


Sum

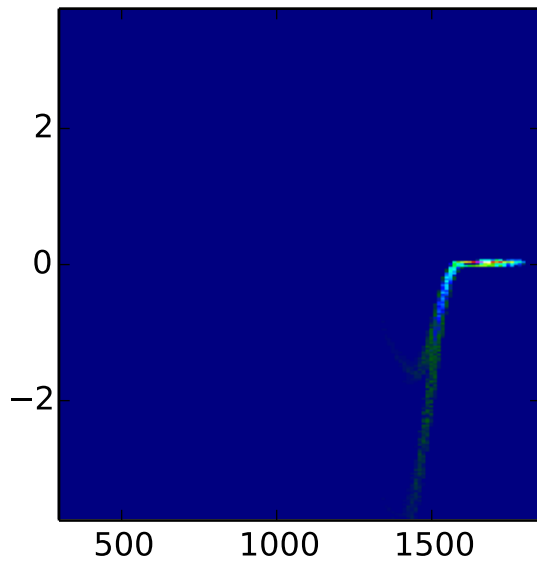


# Edge CH<sub>3</sub> $\rightleftharpoons$ C<sub>3</sub>H<sub>7</sub>

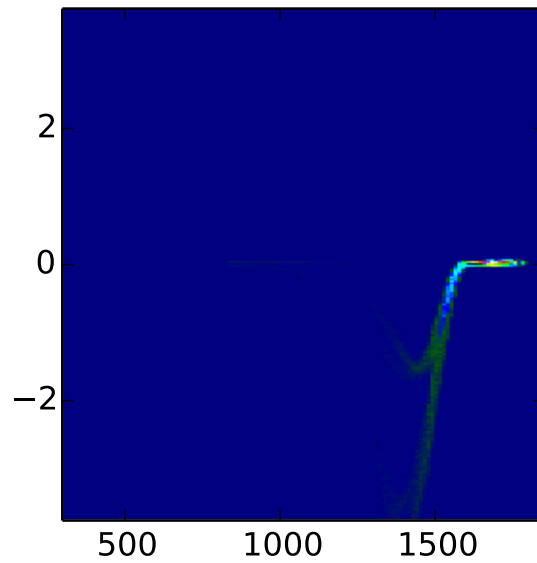
Curvature: -6000 : -5200



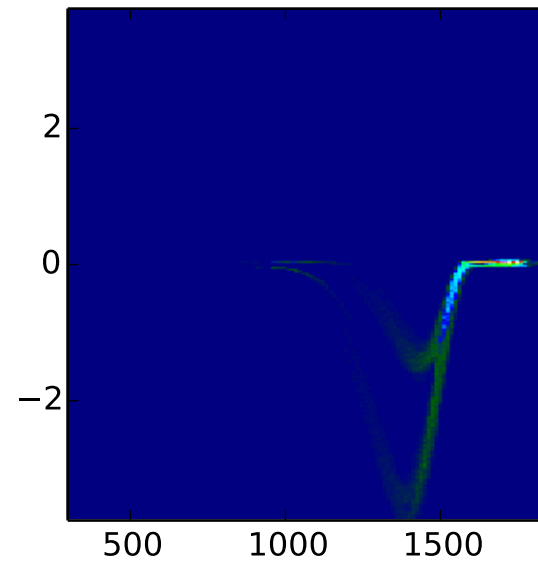
Curvature: -5200 : -4400



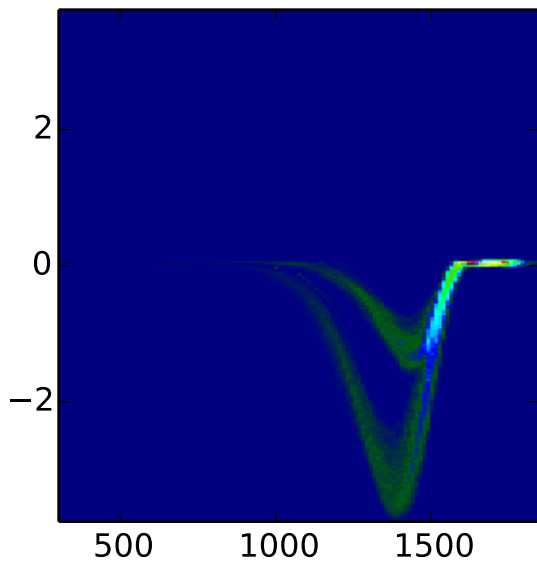
Curvature: -4400 : -3600



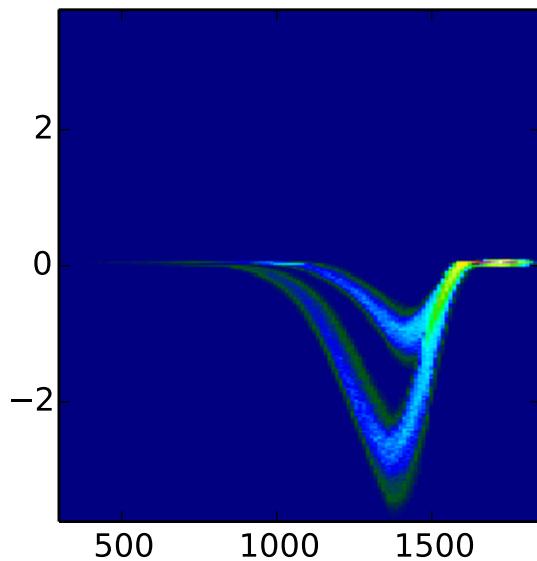
Curvature: -3600 : -2800



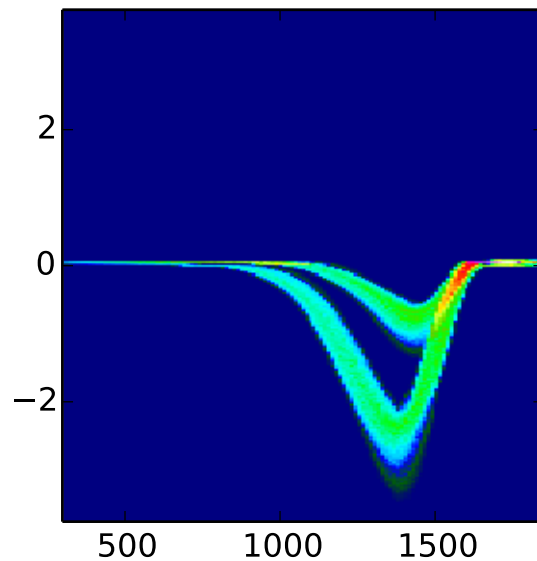
Curvature: -2800 : -2000



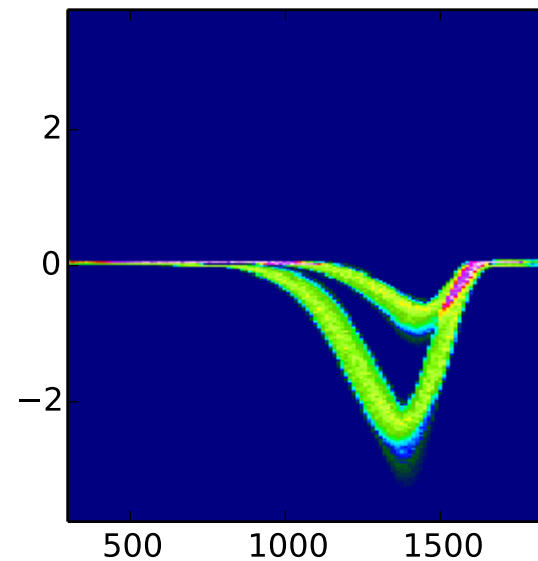
Curvature: -2000 : -1200



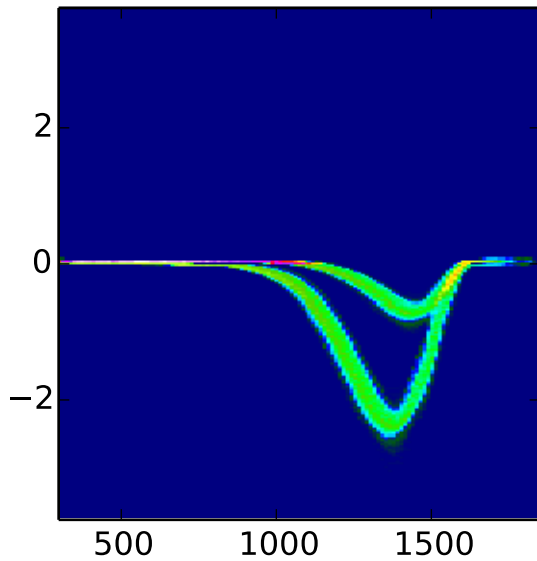
Curvature: -1200 : -400



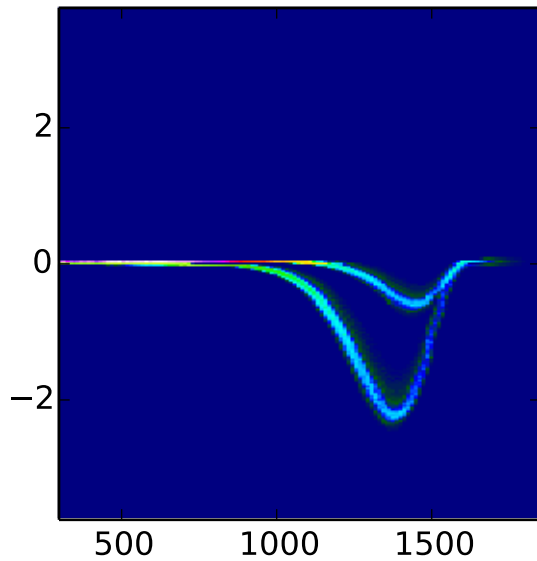
Curvature: -400 : 400



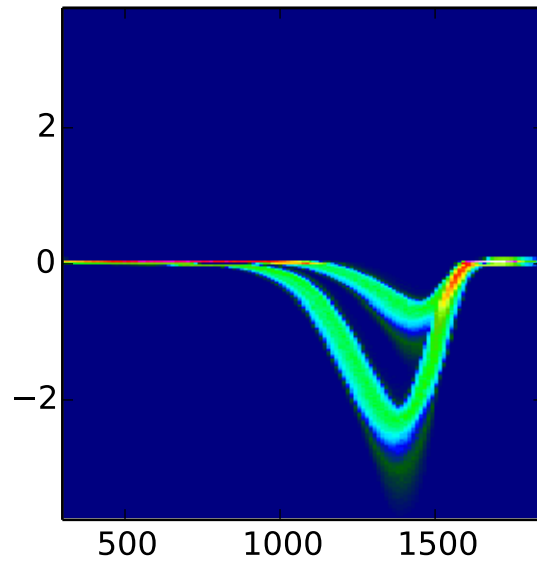
Curvature: 400 : 1200



Curvature: 1200 : 2000

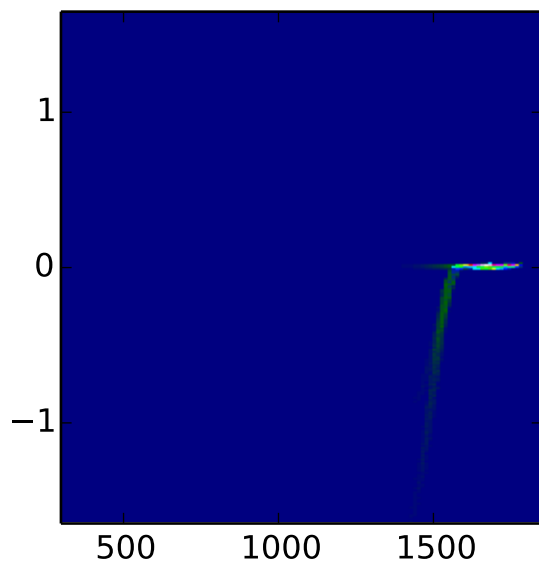


Sum

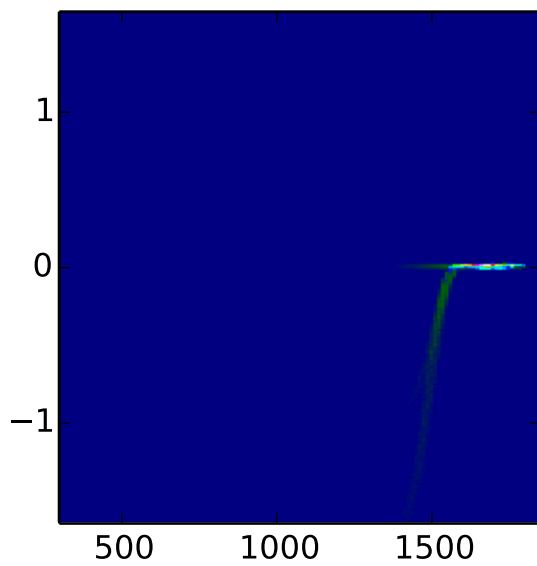


# Edge C3H7 $\rightleftharpoons$ C3H8

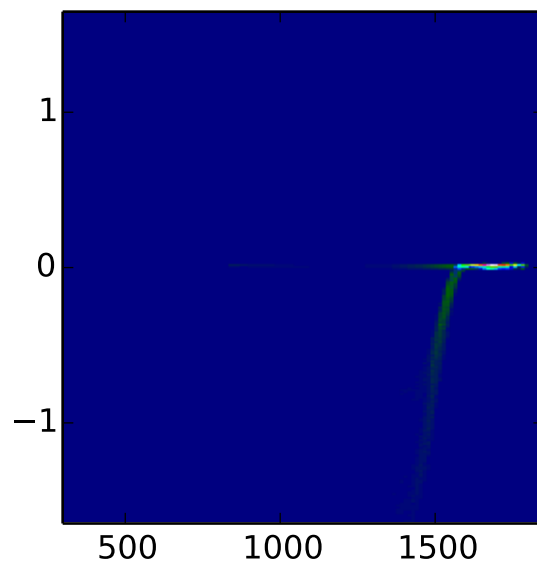
Curvature: -6000 : -5200



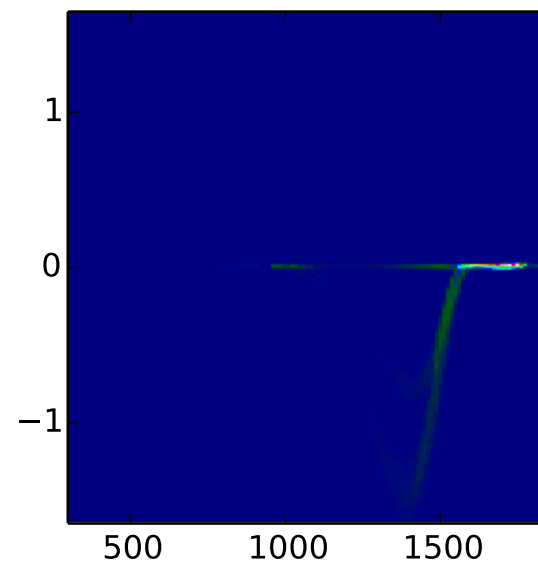
Curvature: -5200 : -4400



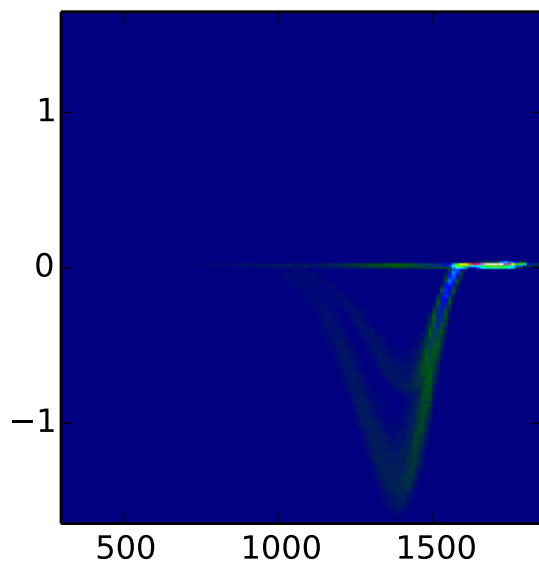
Curvature: -4400 : -3600



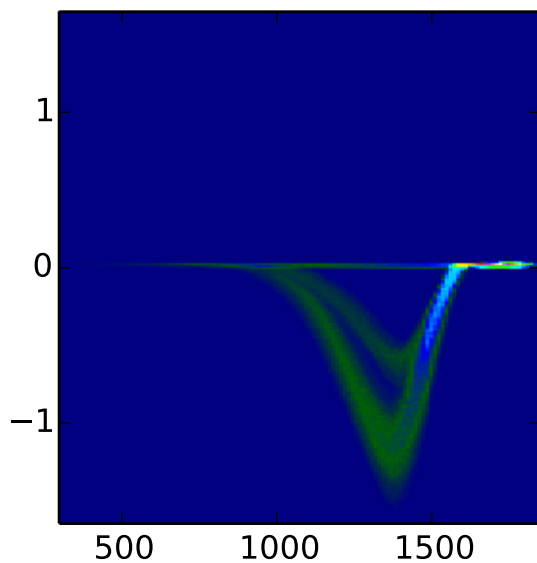
Curvature: -3600 : -2800



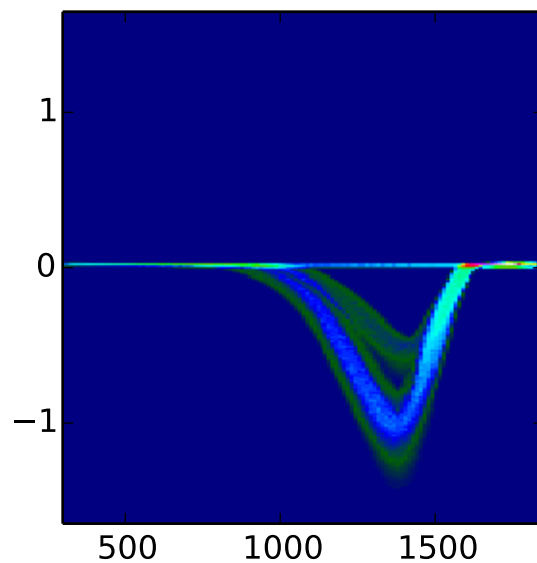
Curvature: -2800 : -2000



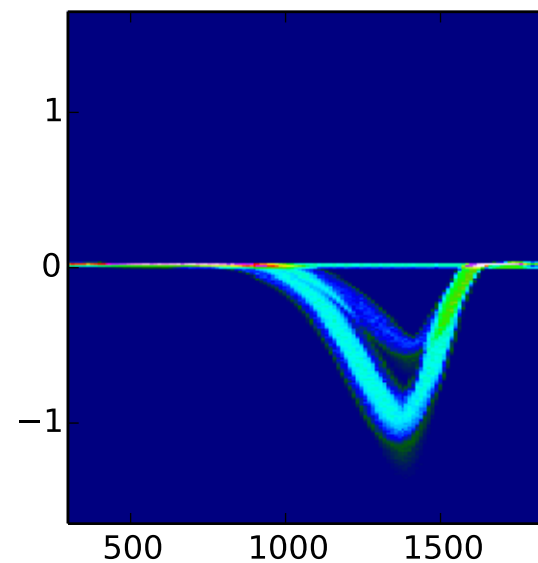
Curvature: -2000 : -1200



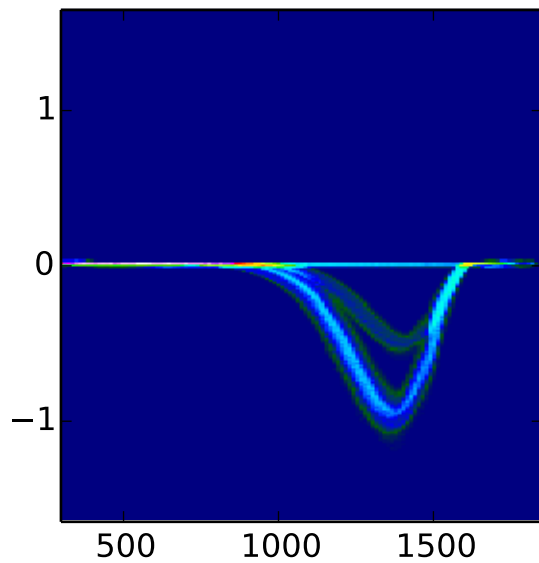
Curvature: -1200 : -400



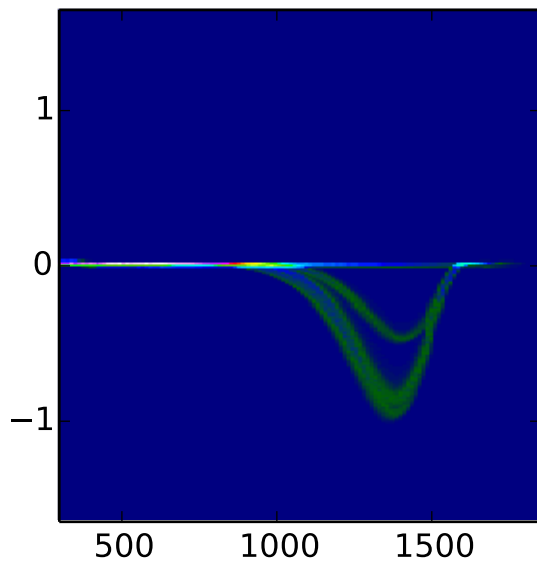
Curvature: -400 : 400



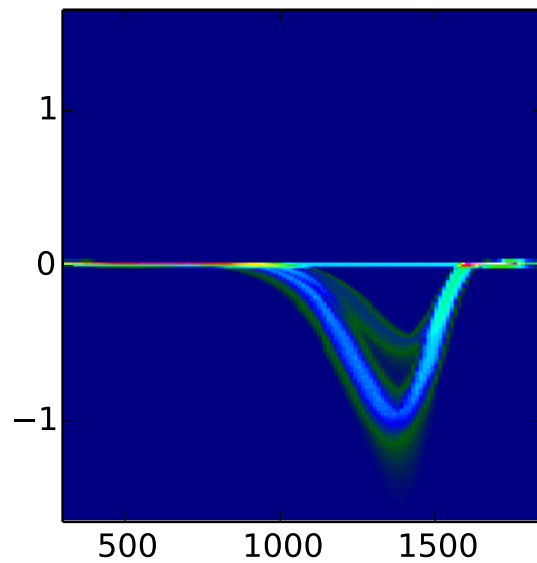
Curvature: 400 : 1200



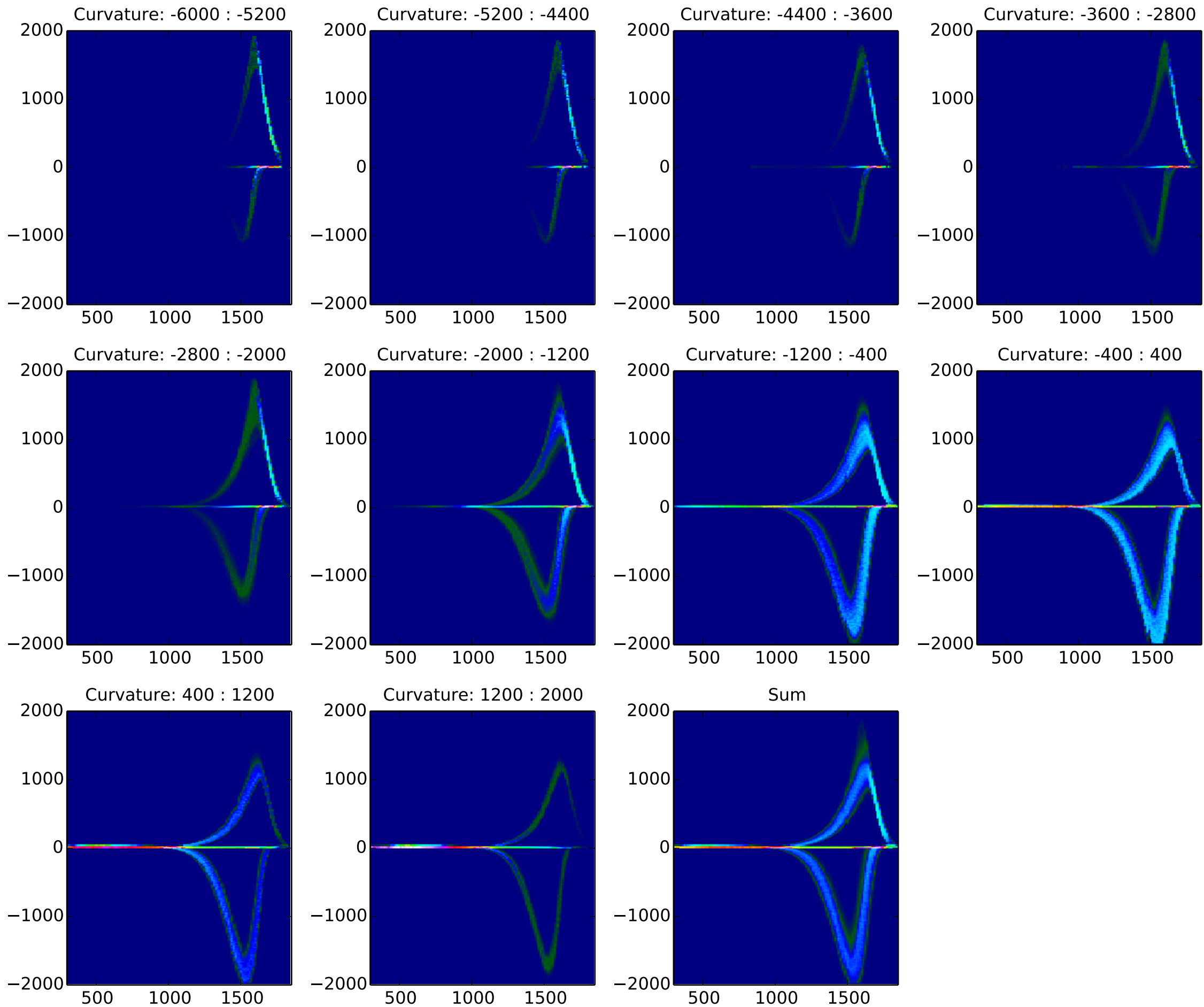
Curvature: 1200 : 2000



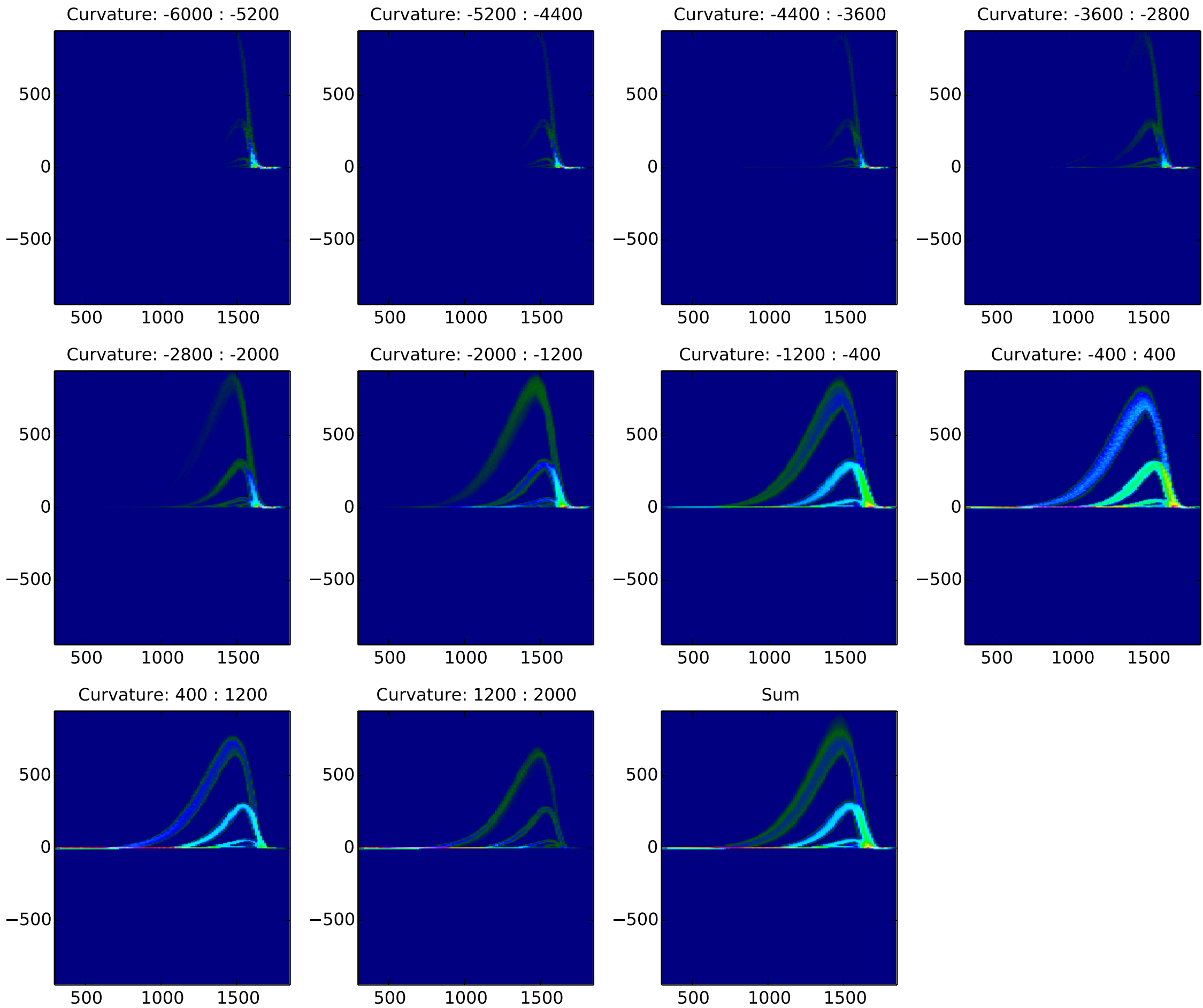
Sum



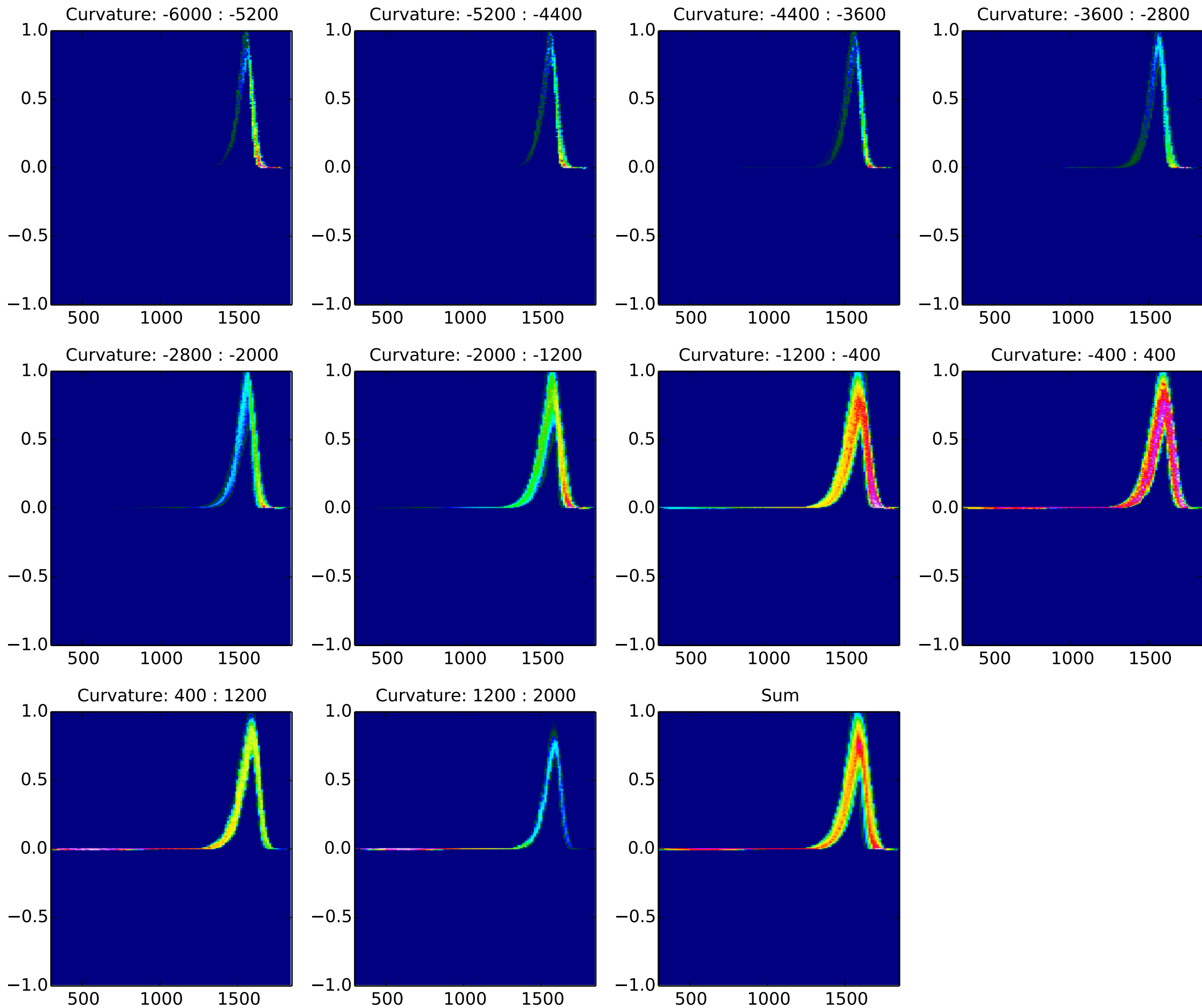
# Edge CO $\rightleftharpoons$ CO2



# Edge HCO $\rightleftharpoons$ CO



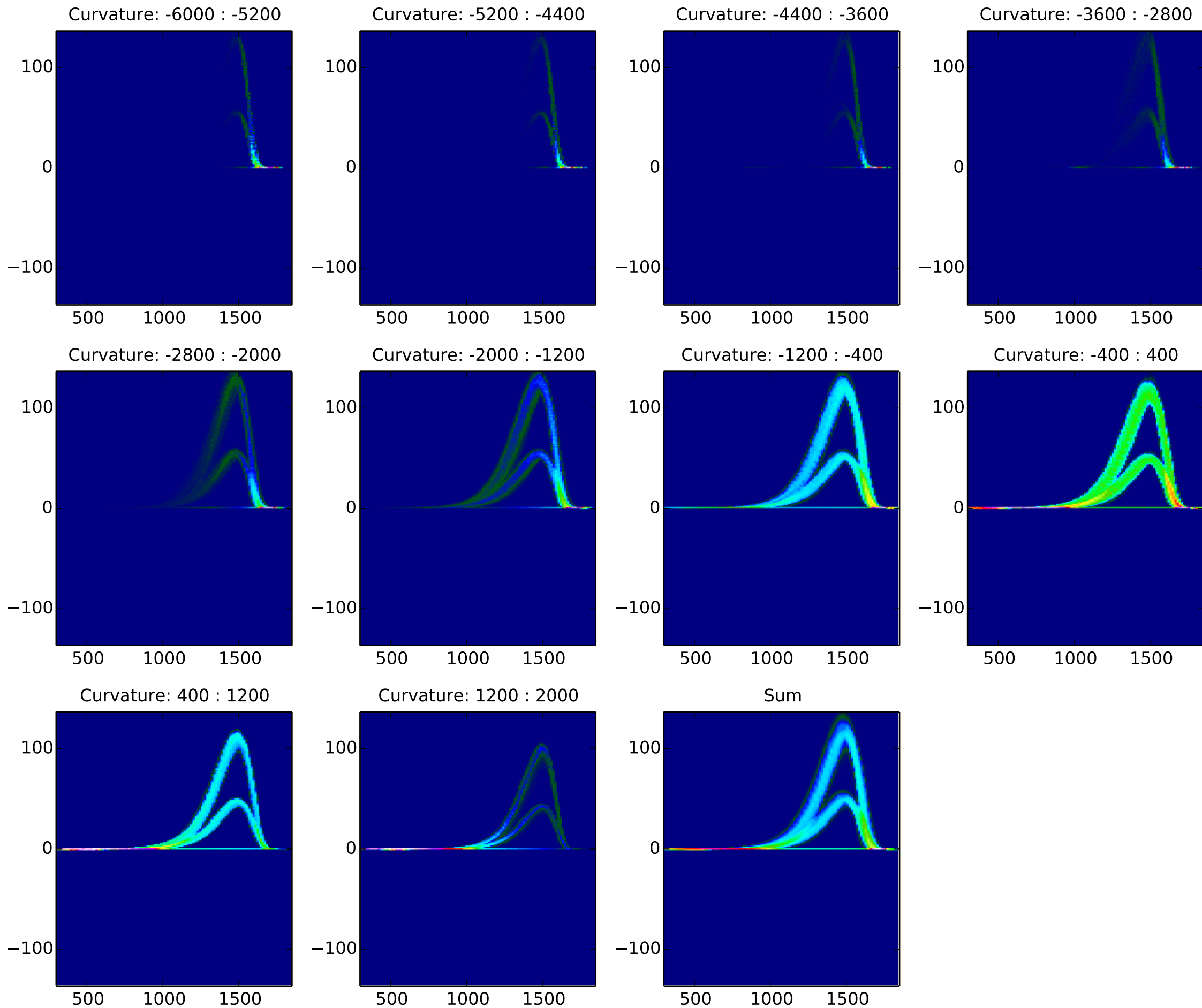
# Edge CH $\rightleftharpoons$ CO





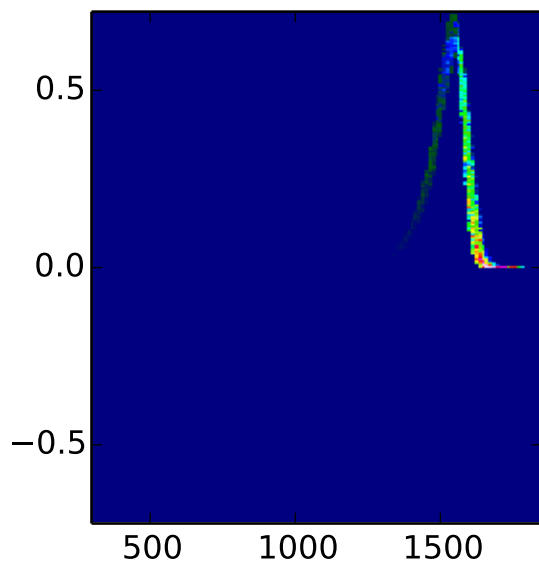


# Edge CH<sub>2</sub>(S) $\rightleftharpoons$ CO

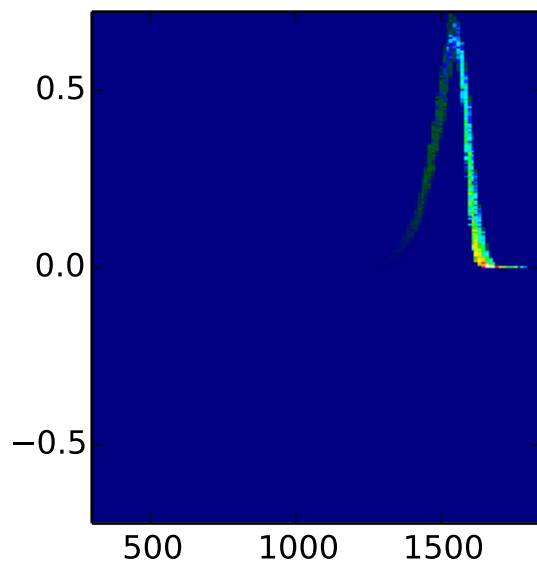


# Edge CH<sub>2</sub>(S) $\rightleftharpoons$ HCO

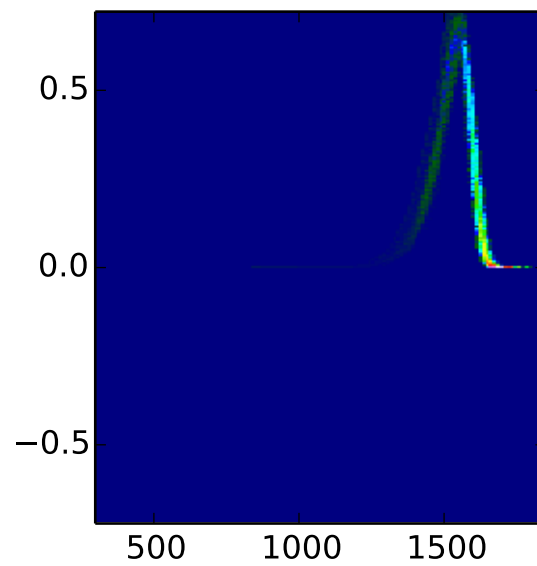
Curvature: -6000 : -5200



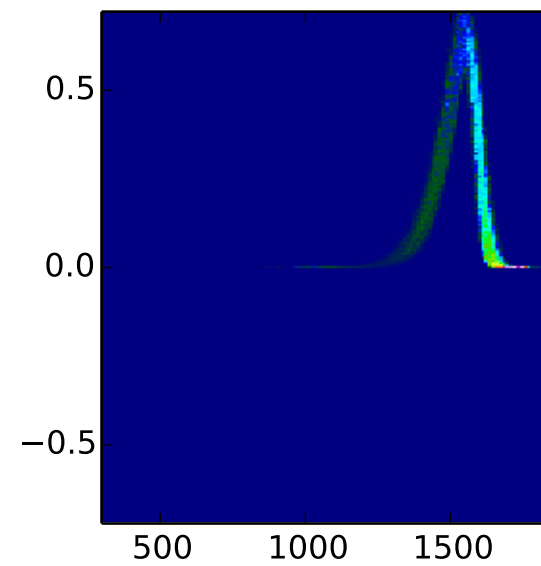
Curvature: -5200 : -4400



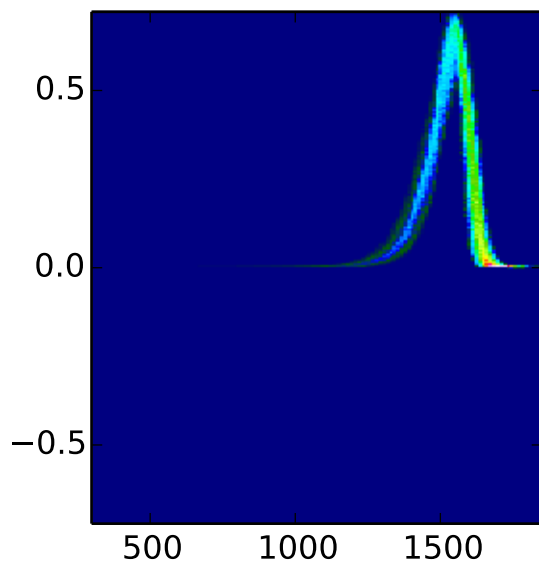
Curvature: -4400 : -3600



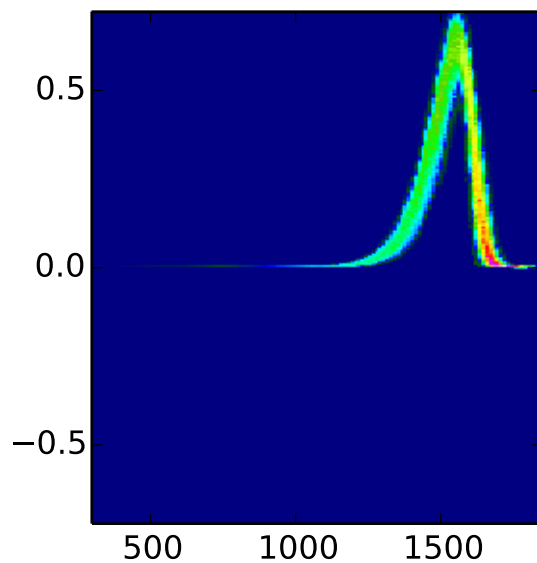
Curvature: -3600 : -2800



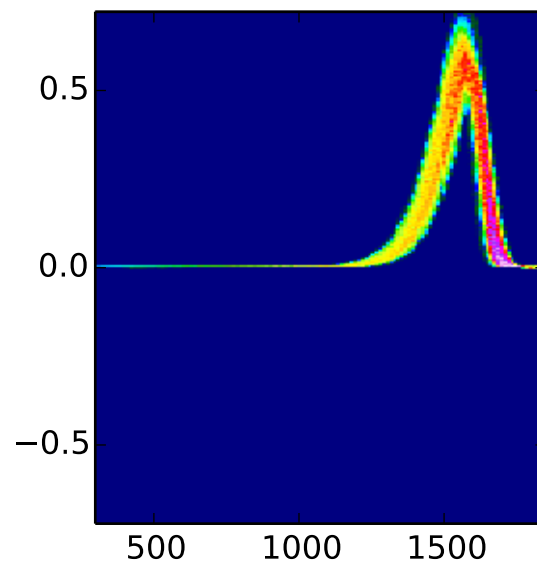
Curvature: -2800 : -2000



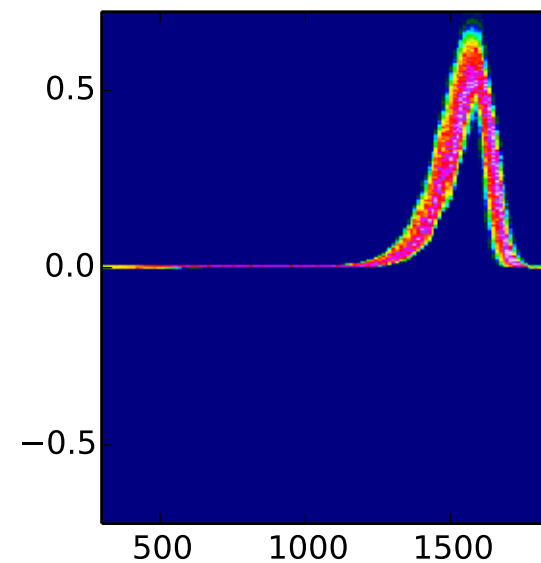
Curvature: -2000 : -1200



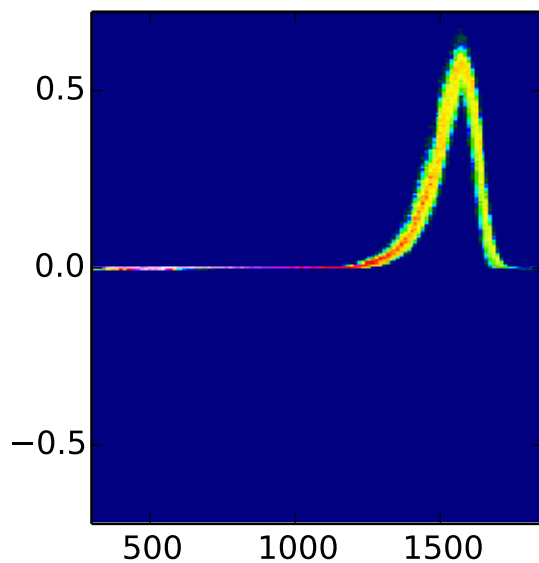
Curvature: -1200 : -400



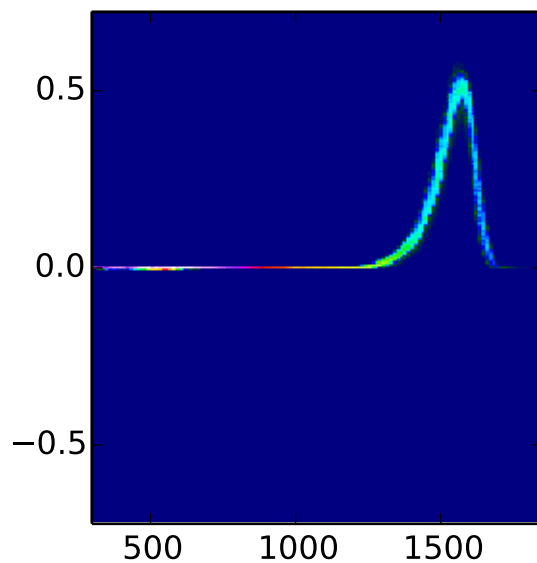
Curvature: -400 : 400



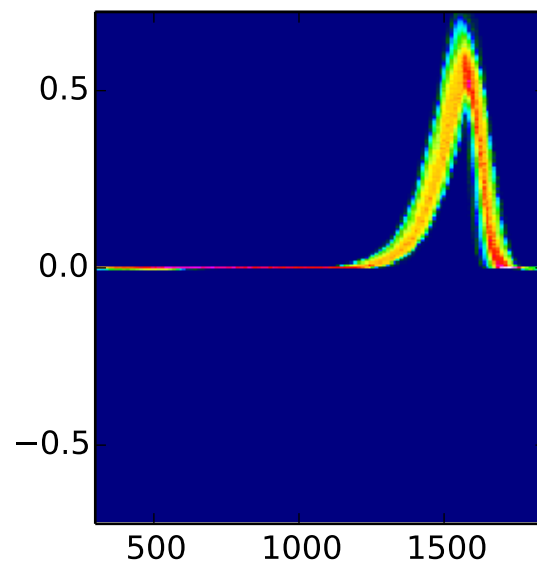
Curvature: 400 : 1200



Curvature: 1200 : 2000



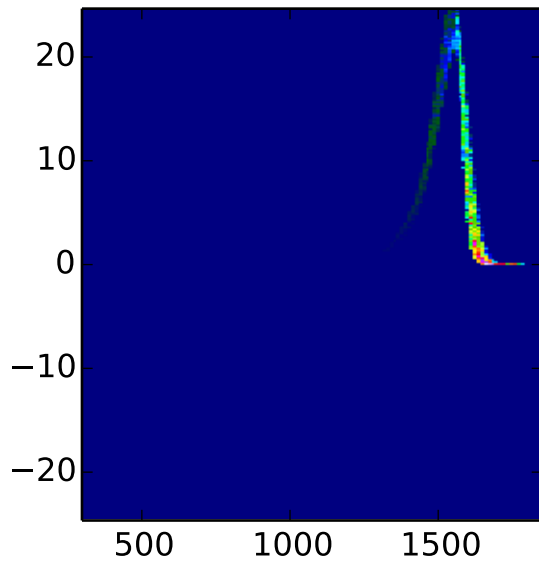
Sum



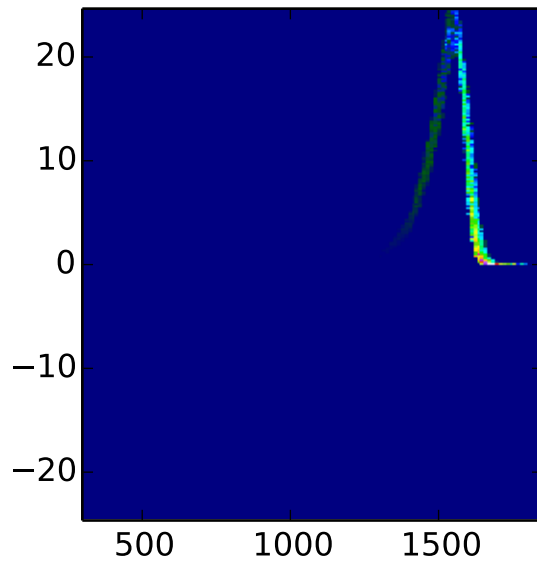


# Edge HCO $\rightleftharpoons$ CO2

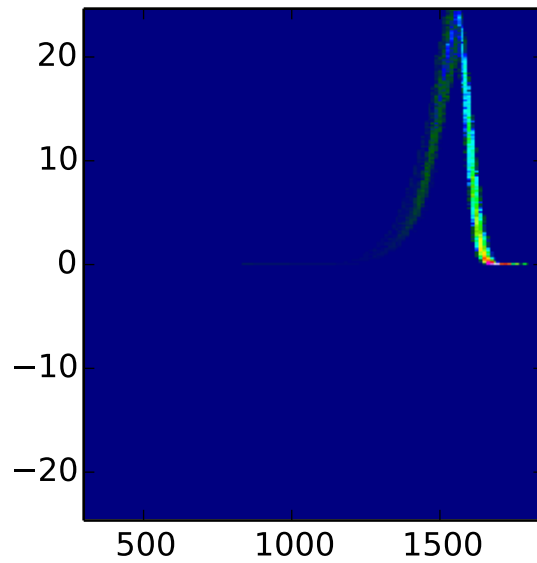
Curvature: -6000 : -5200



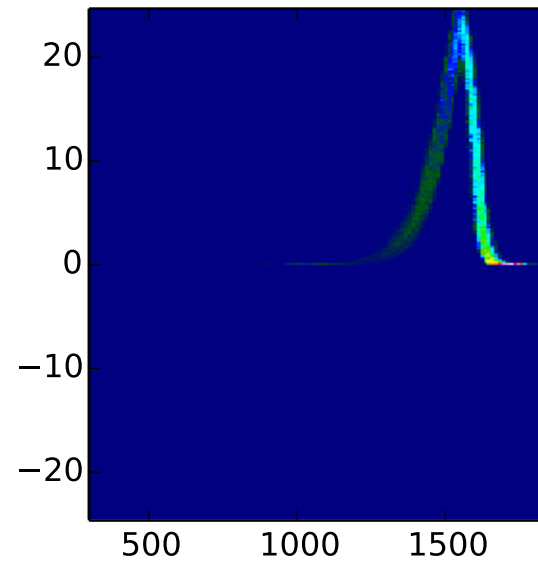
Curvature: -5200 : -4400



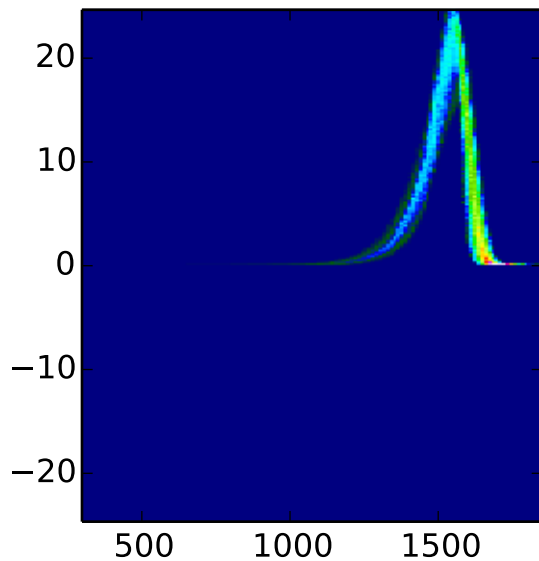
Curvature: -4400 : -3600



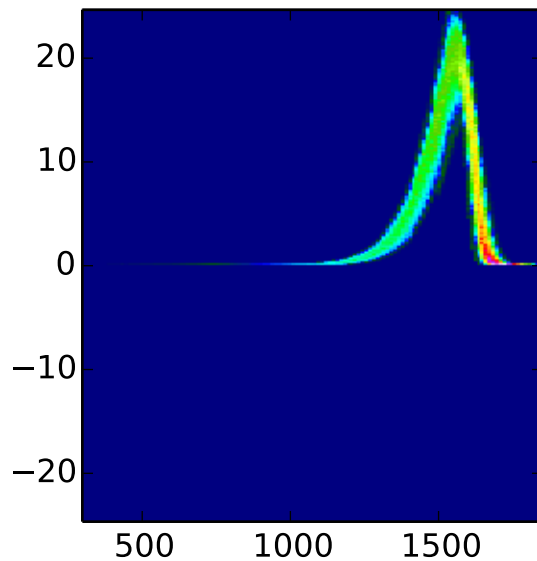
Curvature: -3600 : -2800



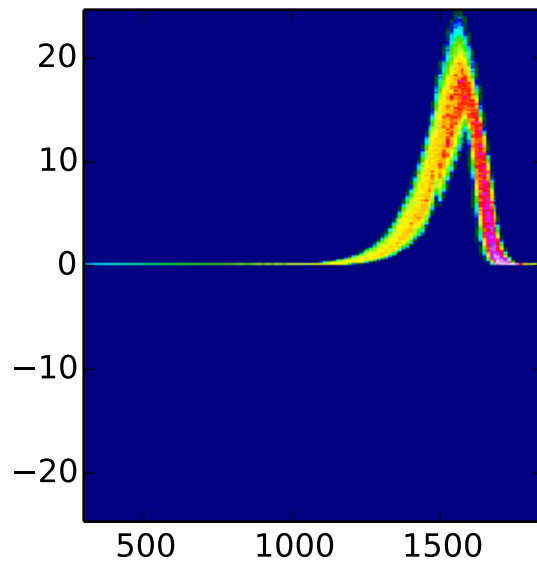
Curvature: -2800 : -2000



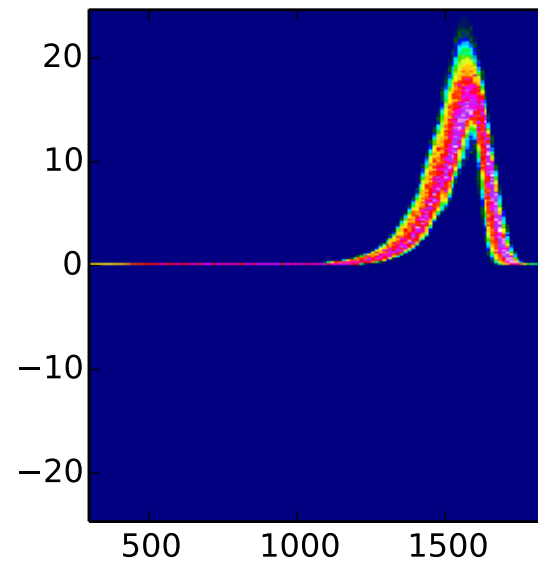
Curvature: -2000 : -1200



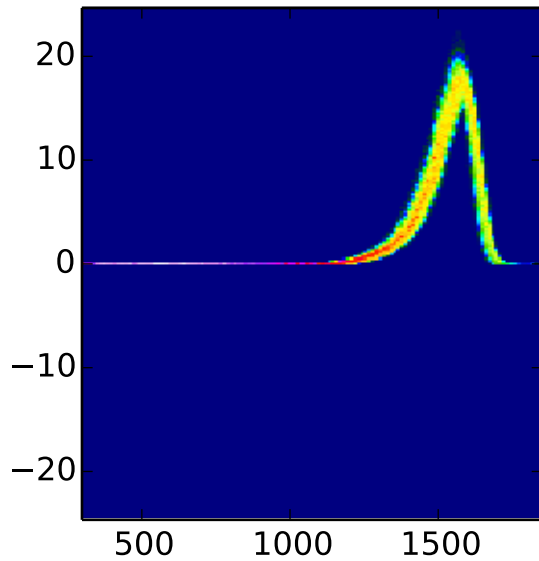
Curvature: -1200 : -400



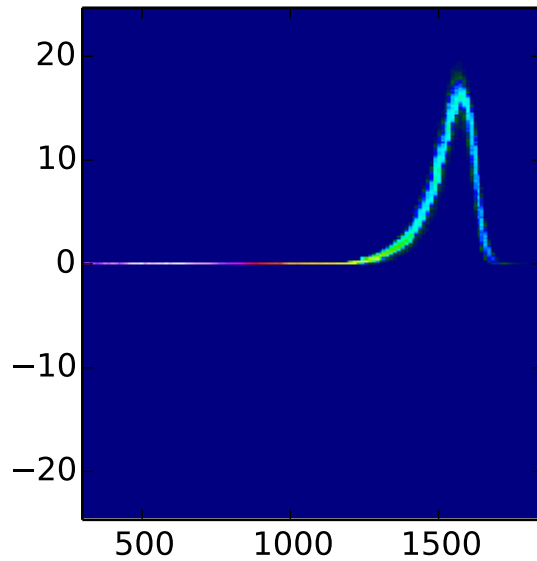
Curvature: -400 : 400



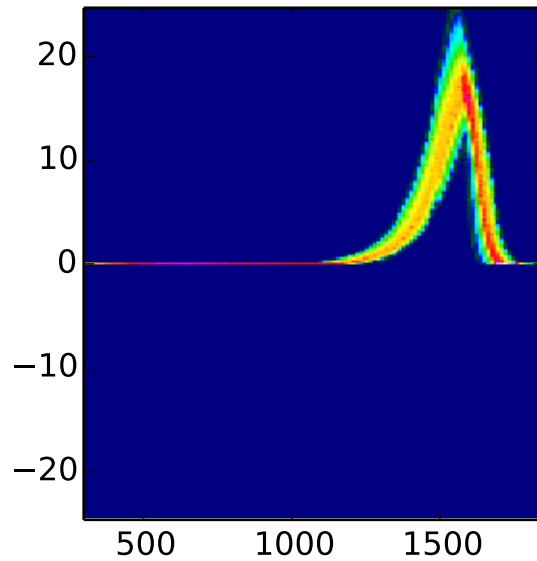
Curvature: 400 : 1200



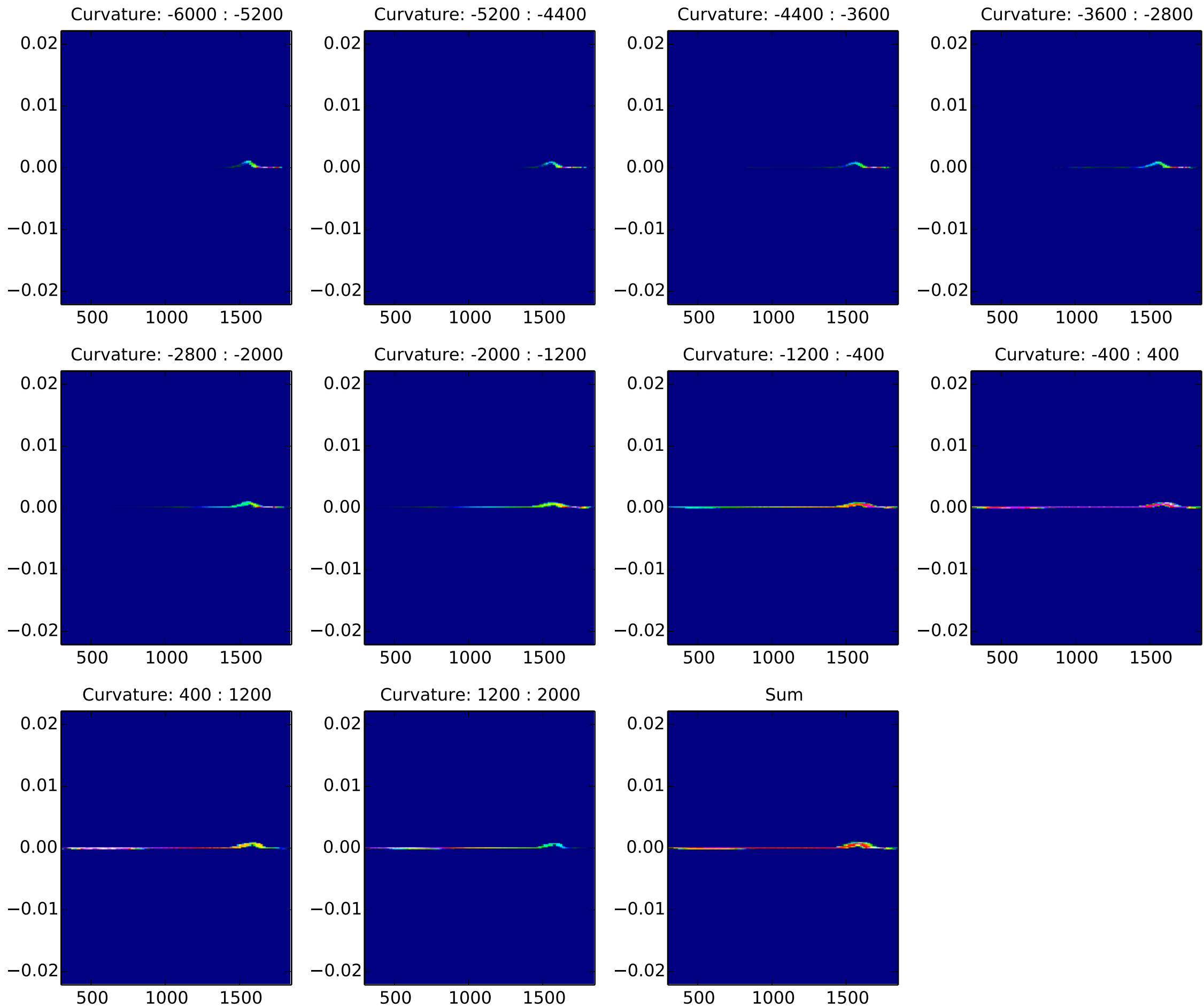
Curvature: 1200 : 2000



Sum

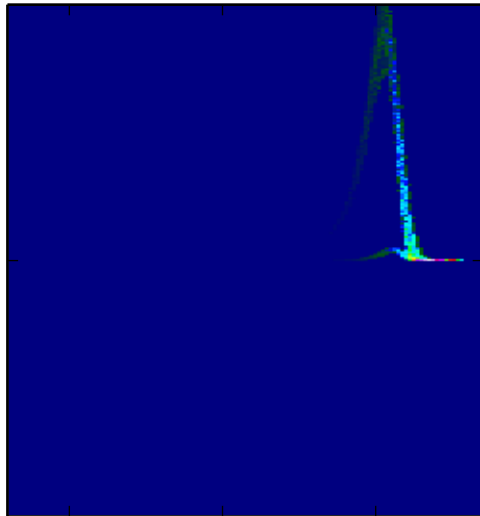


# Edge C2H $\rightleftharpoons$ CH

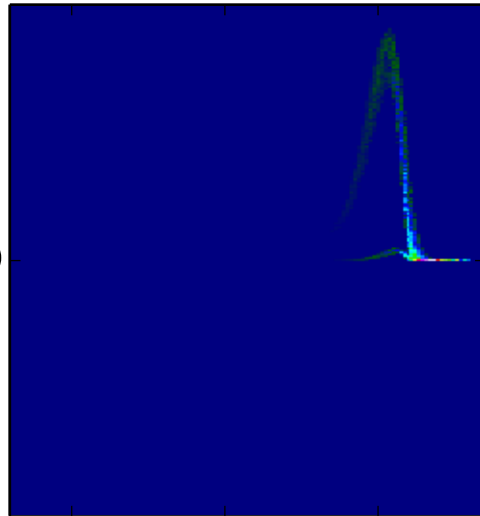


# Edge C2H $\rightleftharpoons$ CO

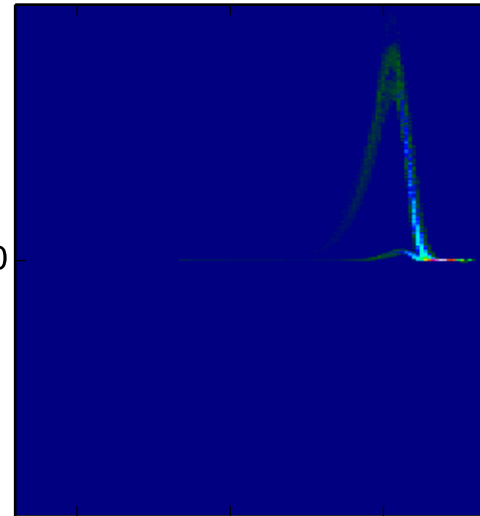
Curvature: -6000 : -5200



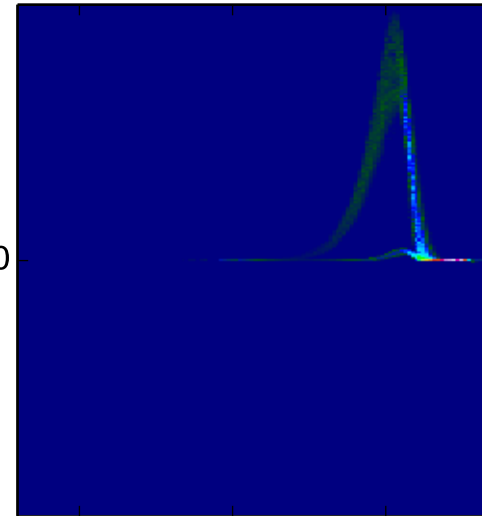
Curvature: -5200 : -4400



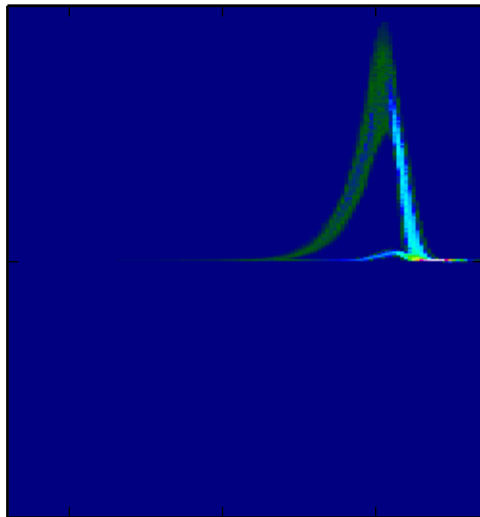
Curvature: -4400 : -3600



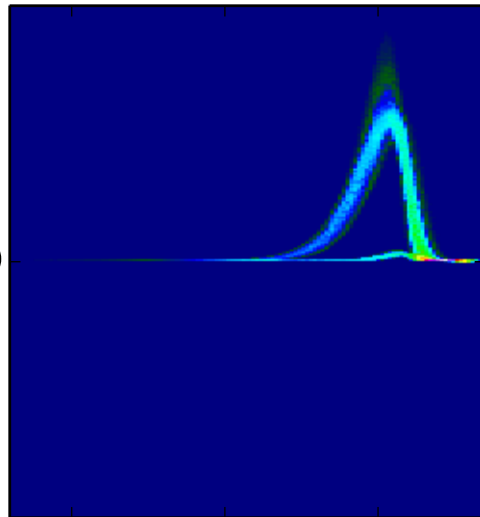
Curvature: -3600 : -2800



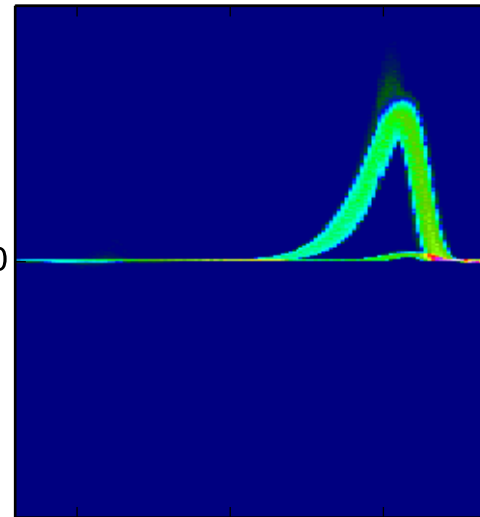
Curvature: -2800 : -2000



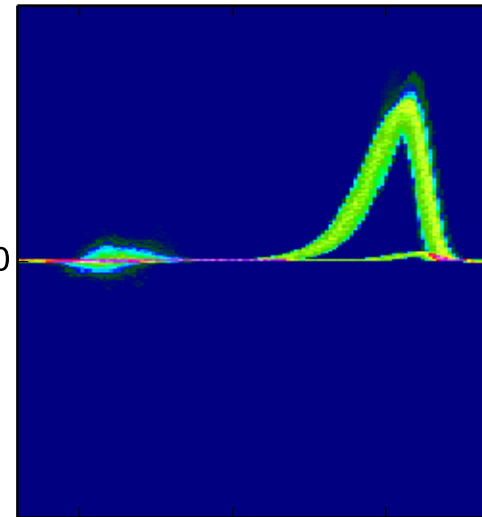
Curvature: -2000 : -1200



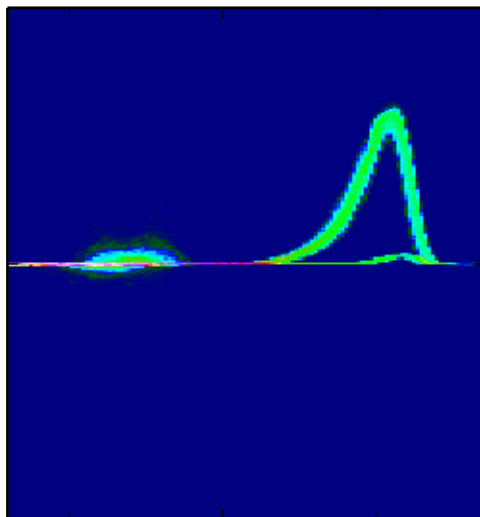
Curvature: -1200 : -400



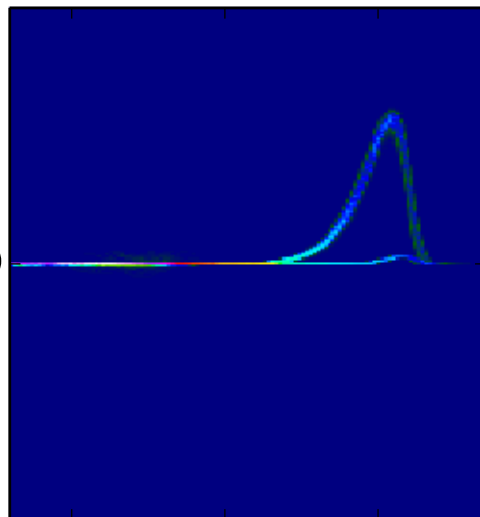
Curvature: -400 : 400



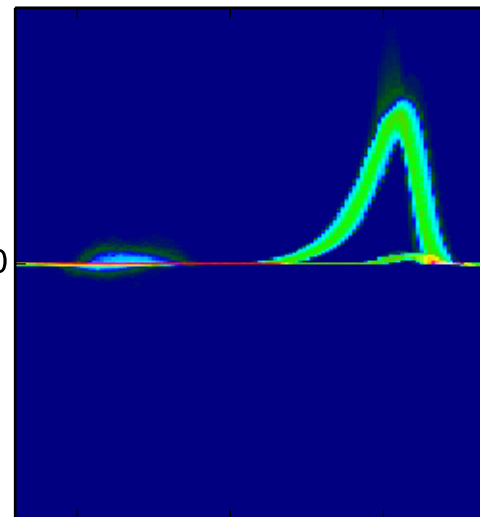
Curvature: 400 : 1200



Curvature: 1200 : 2000

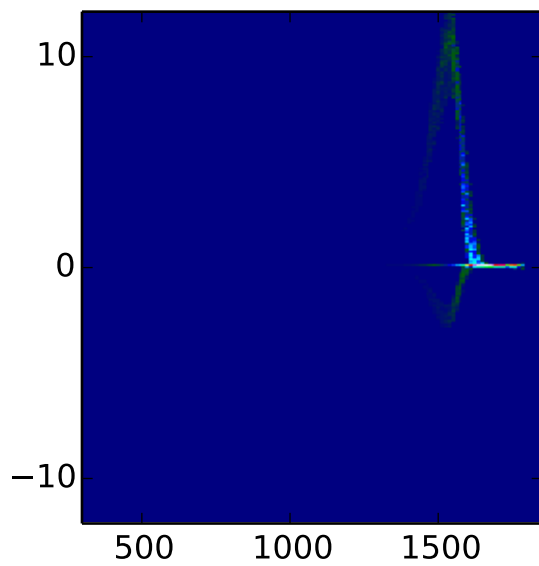


Sum

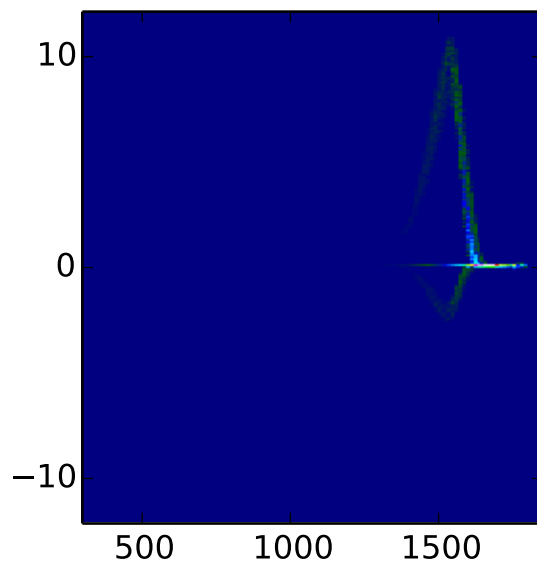


# Edge C2H2 $\rightleftharpoons$ HCCO

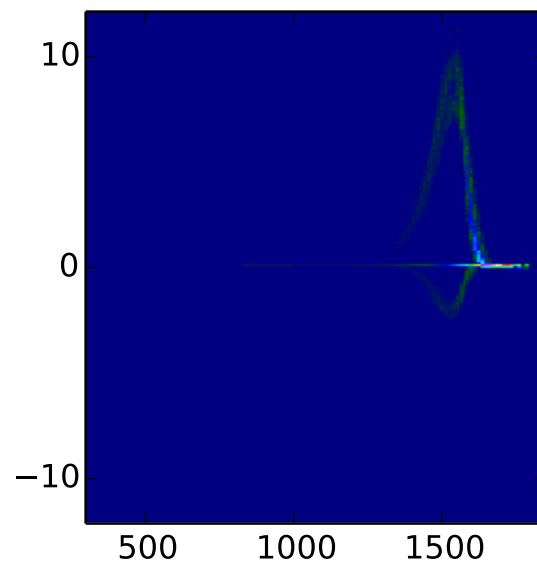
Curvature: -6000 : -5200



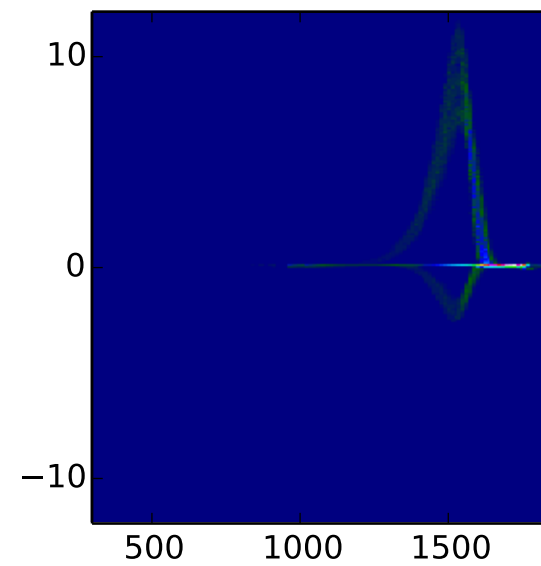
Curvature: -5200 : -4400



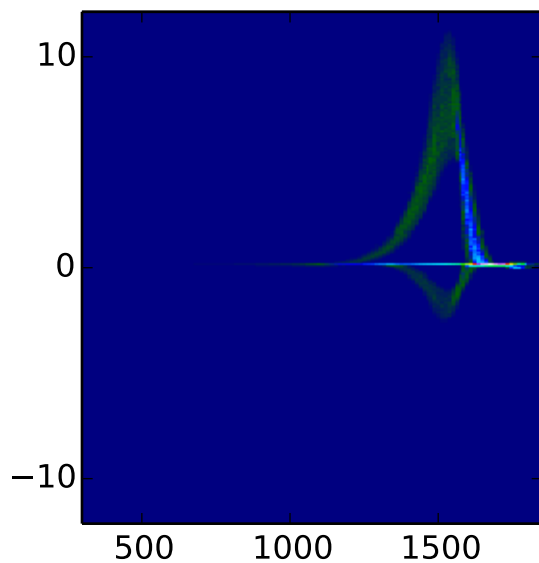
Curvature: -4400 : -3600



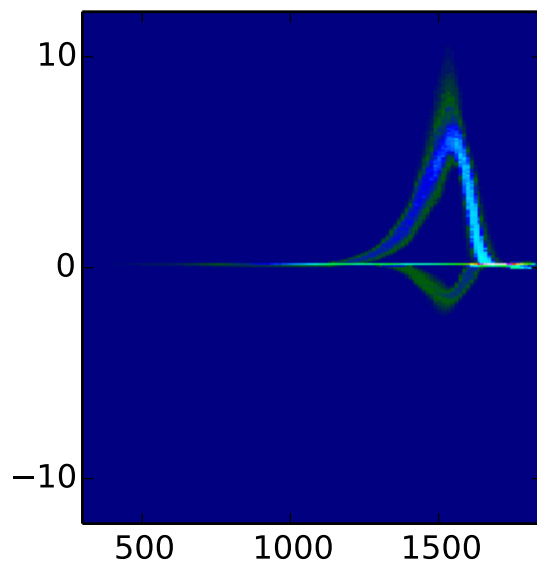
Curvature: -3600 : -2800



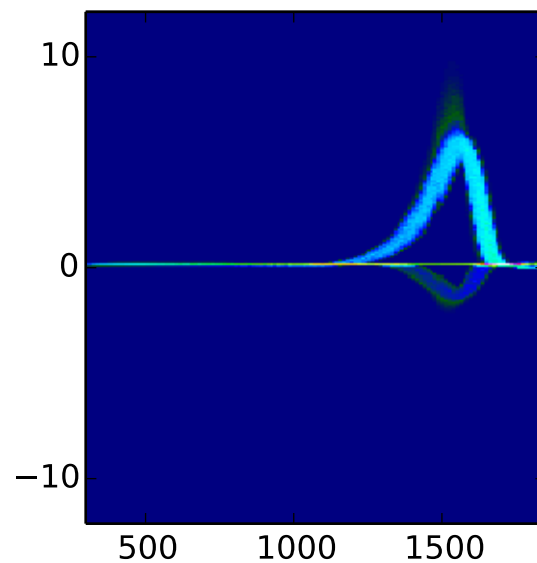
Curvature: -2800 : -2000



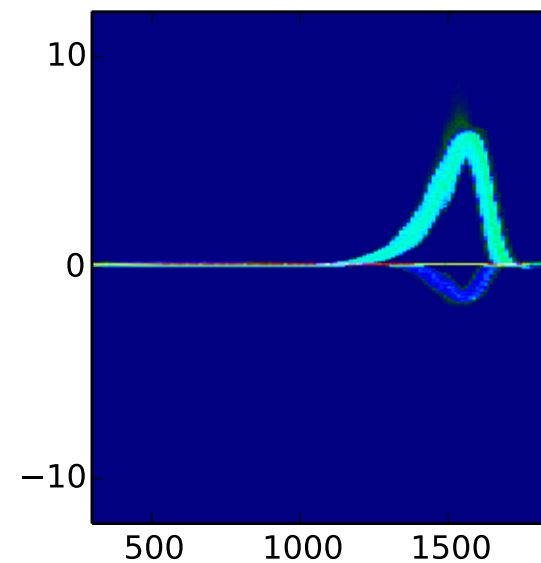
Curvature: -2000 : -1200



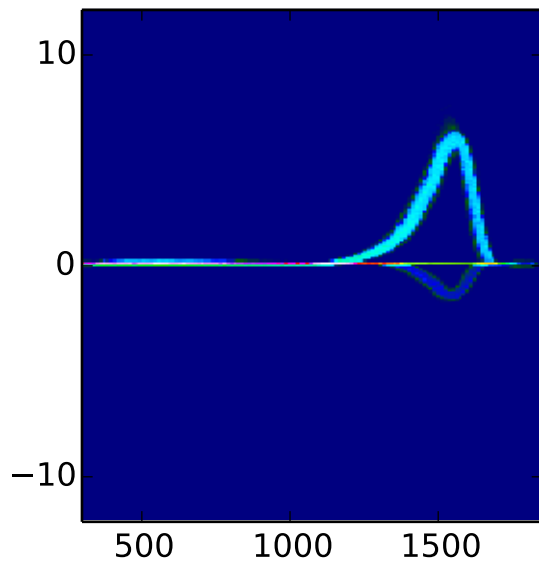
Curvature: -1200 : -400



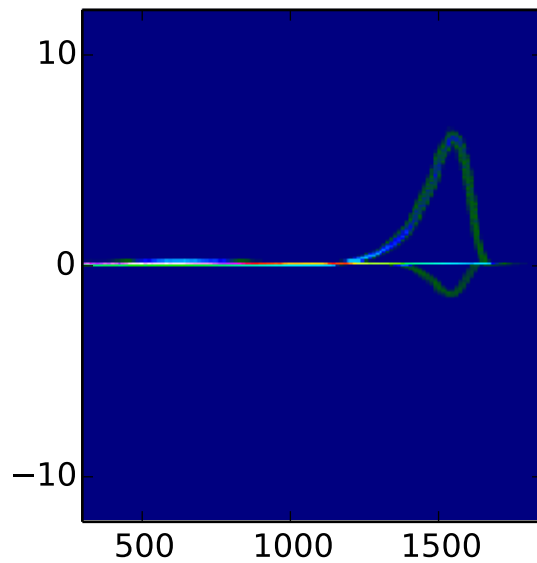
Curvature: -400 : 400



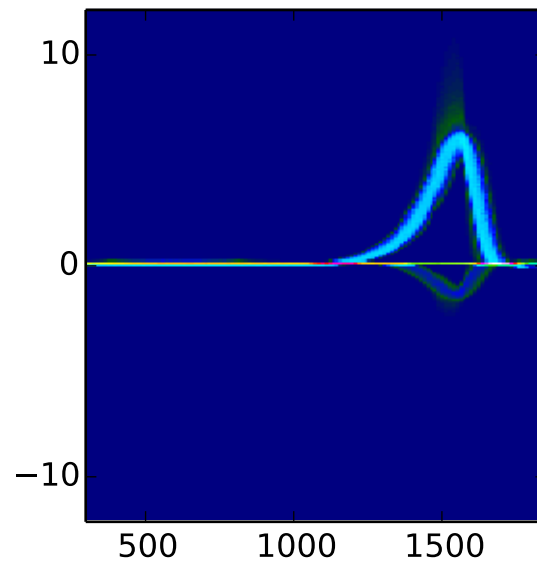
Curvature: 400 : 1200



Curvature: 1200 : 2000

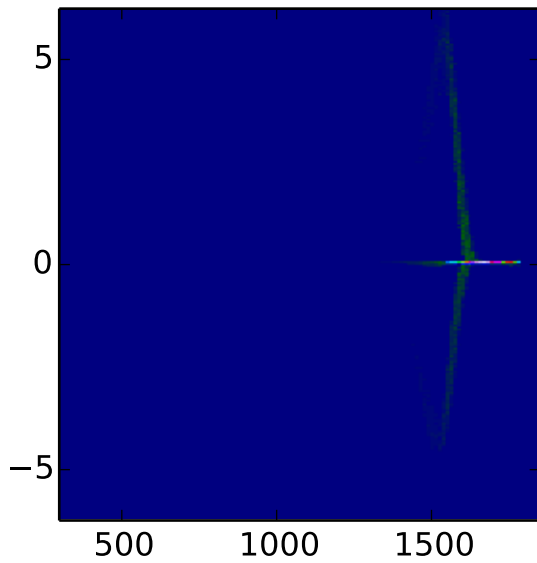


Sum

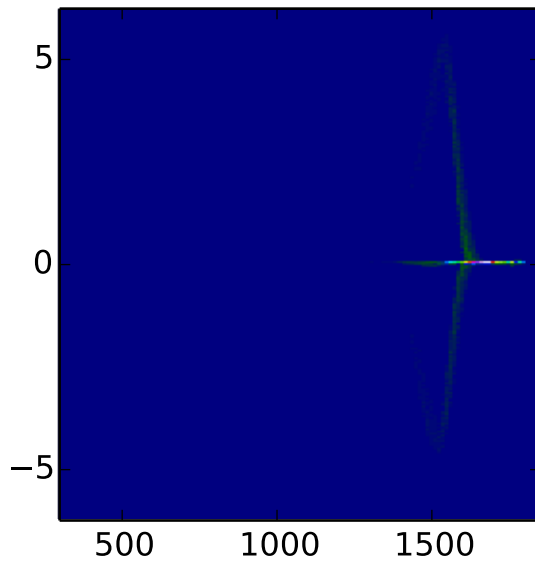


# Edge C2H2 $\rightleftharpoons$ CH2

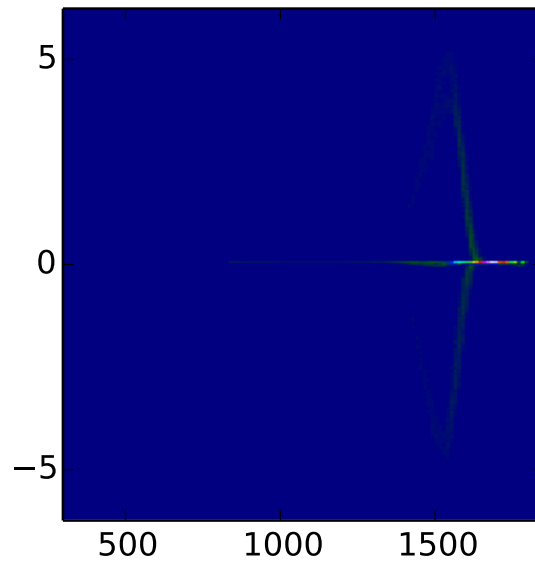
Curvature: -6000 : -5200



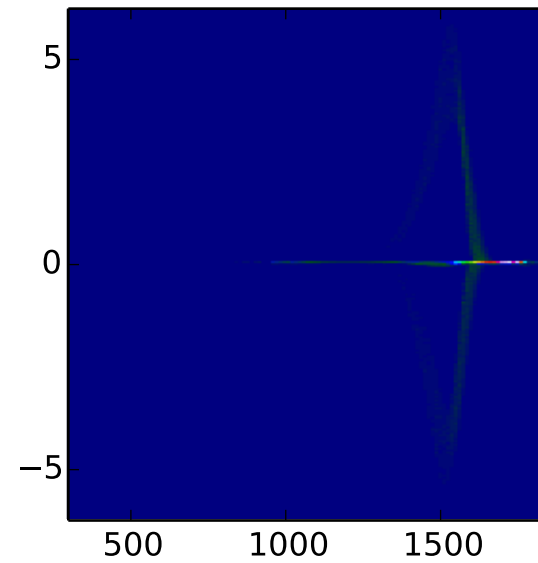
Curvature: -5200 : -4400



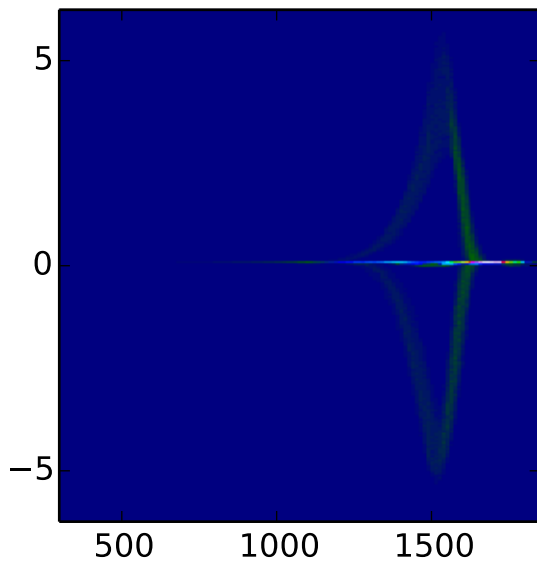
Curvature: -4400 : -3600



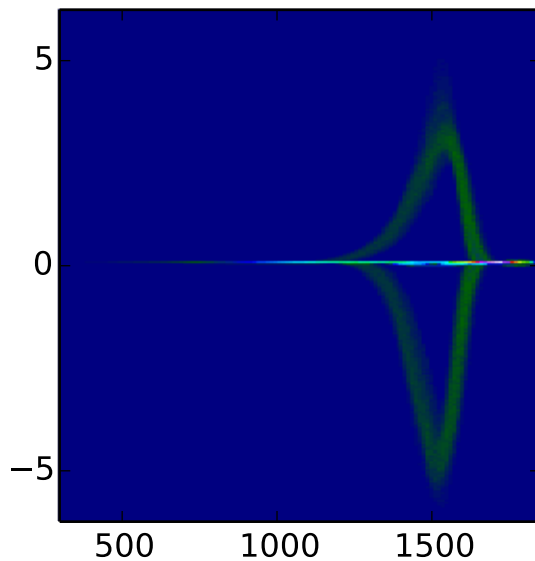
Curvature: -3600 : -2800



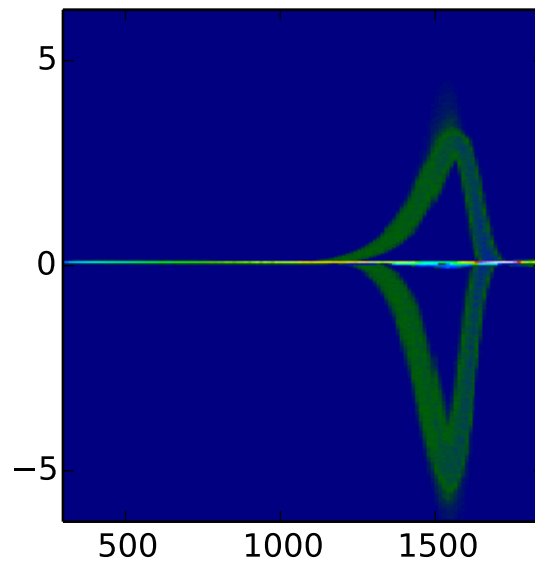
Curvature: -2800 : -2000



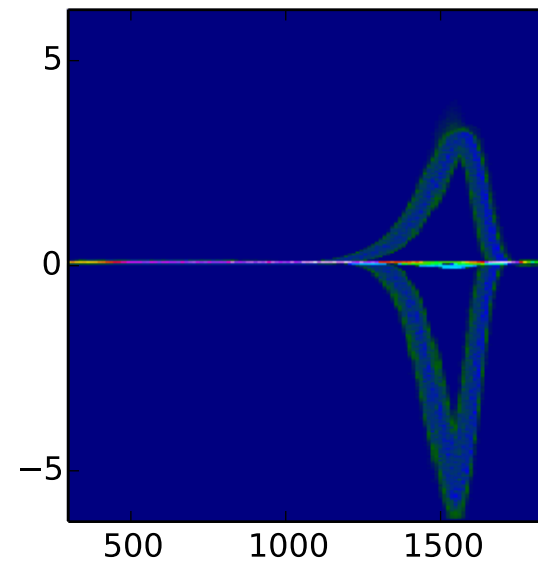
Curvature: -2000 : -1200



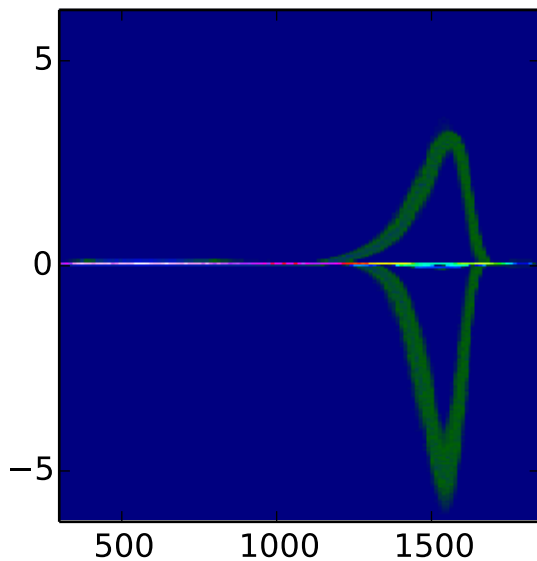
Curvature: -1200 : -400



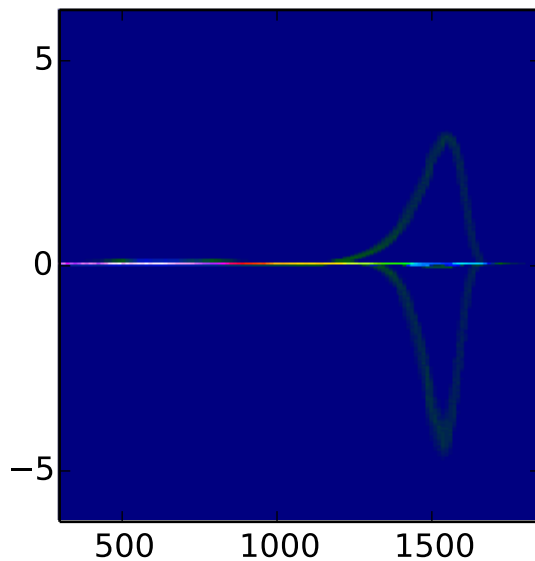
Curvature: -400 : 400



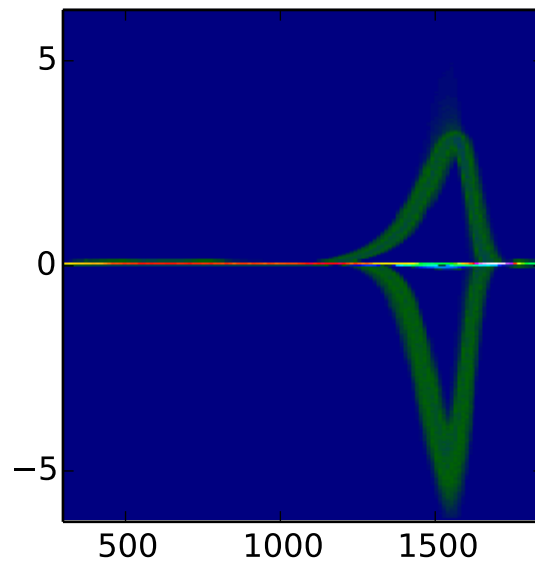
Curvature: 400 : 1200



Curvature: 1200 : 2000



Sum

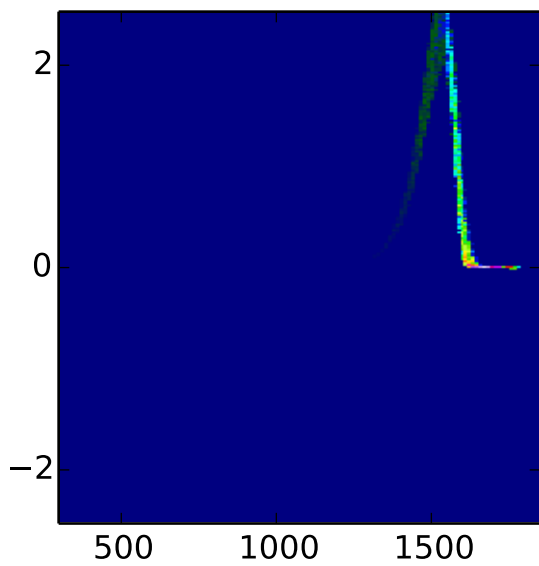




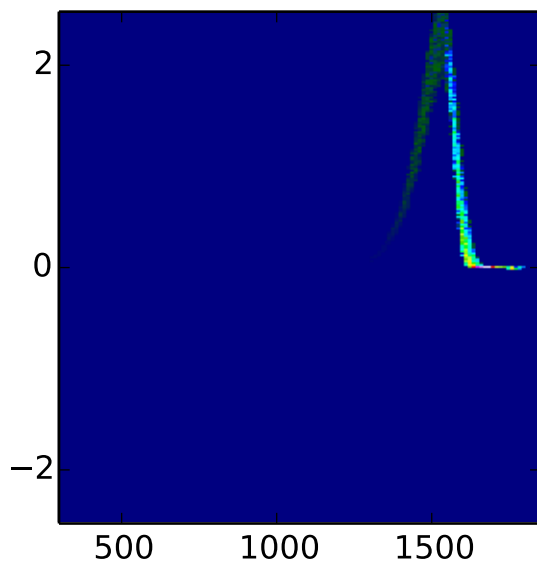


# Edge C2H3 $\rightleftharpoons$ CH2CO

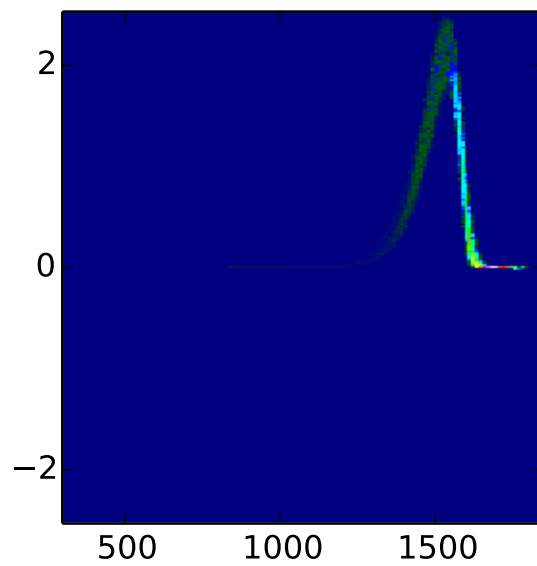
Curvature: -6000 : -5200



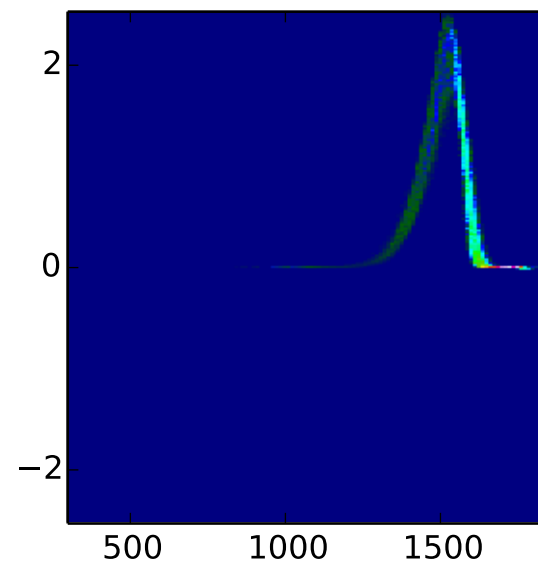
Curvature: -5200 : -4400



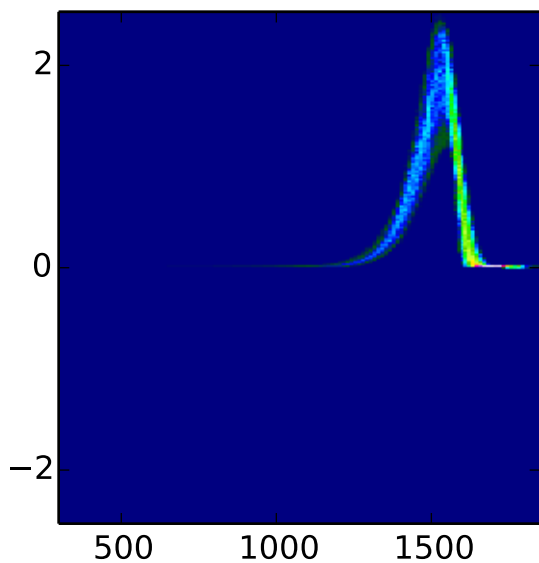
Curvature: -4400 : -3600



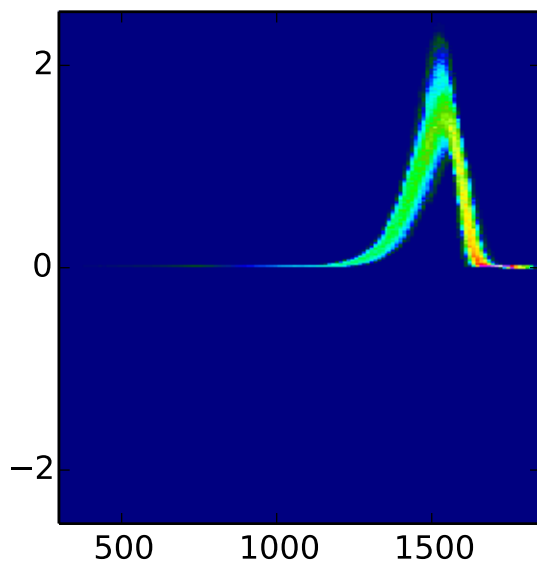
Curvature: -3600 : -2800



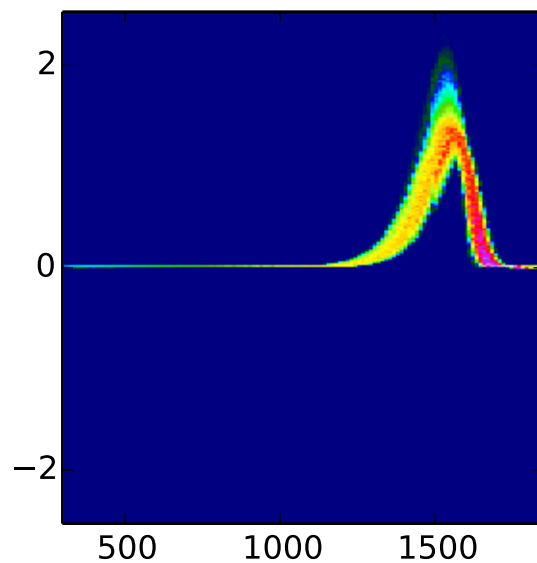
Curvature: -2800 : -2000



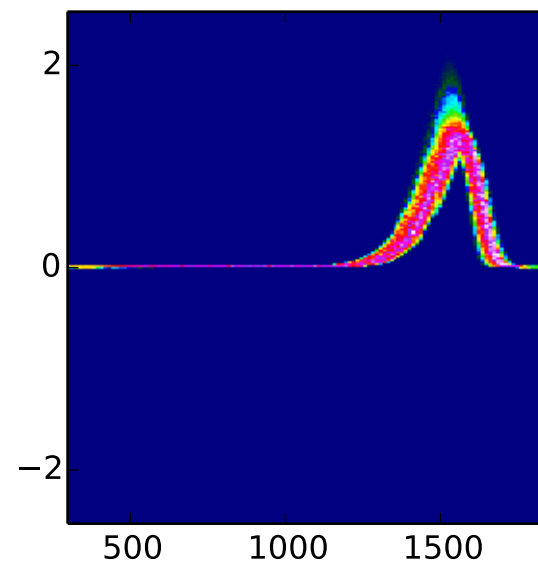
Curvature: -2000 : -1200



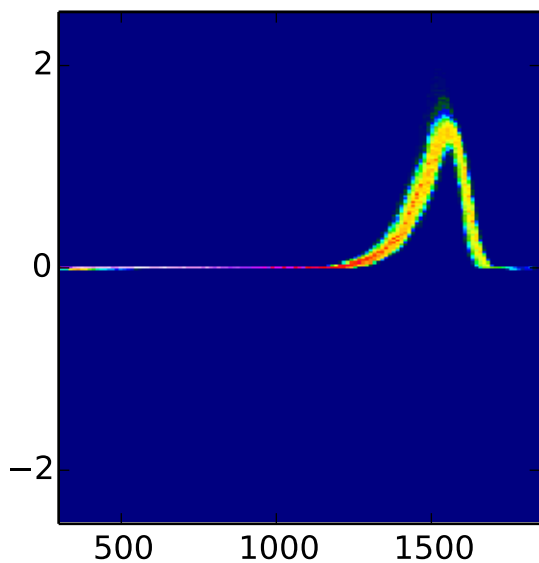
Curvature: -1200 : -400



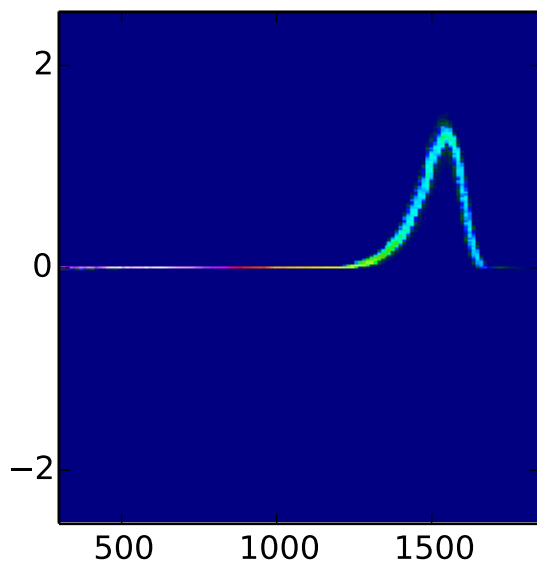
Curvature: -400 : 400



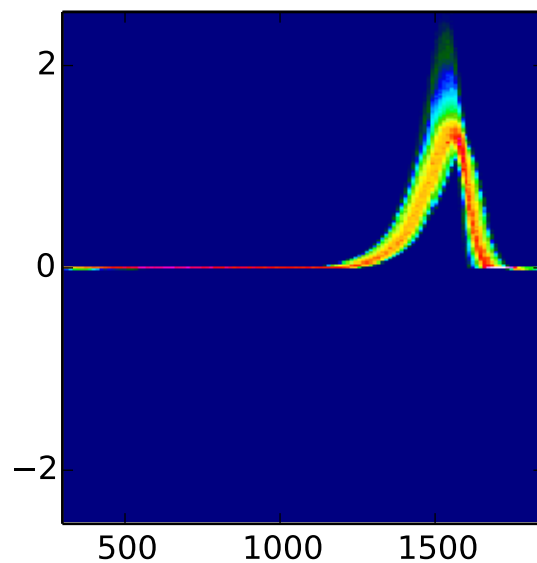
Curvature: 400 : 1200



Curvature: 1200 : 2000

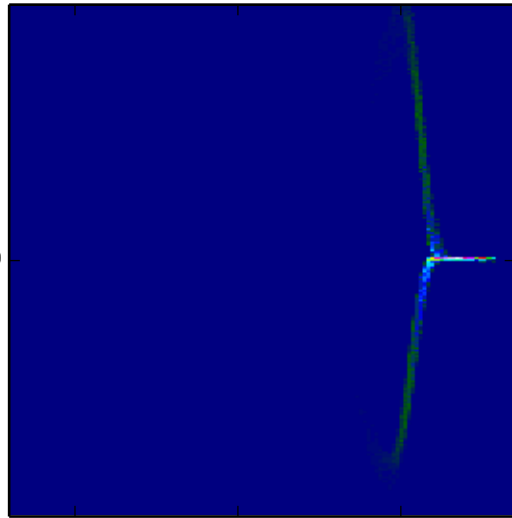


Sum

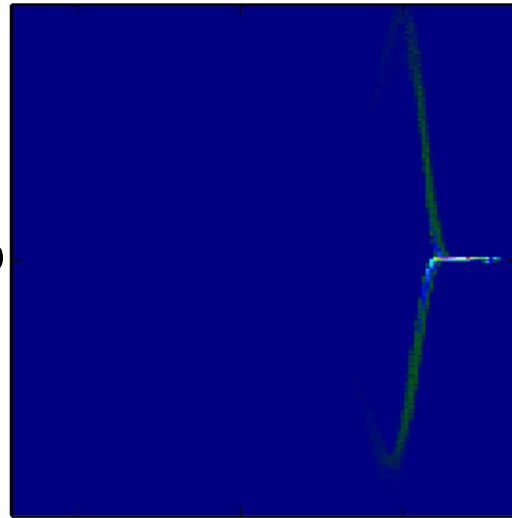


# Edge C2H4 $\rightleftharpoons$ CH3

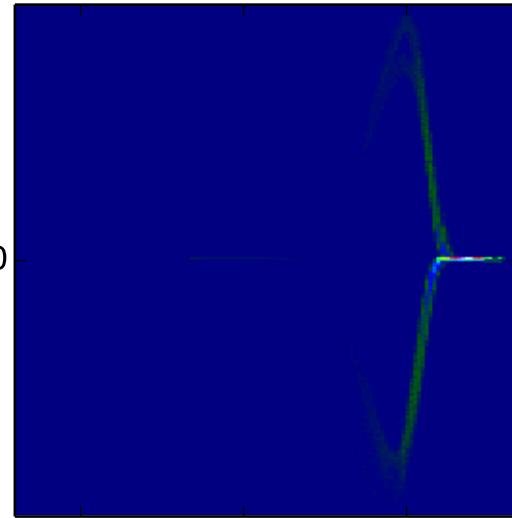
Curvature: -6000 : -5200



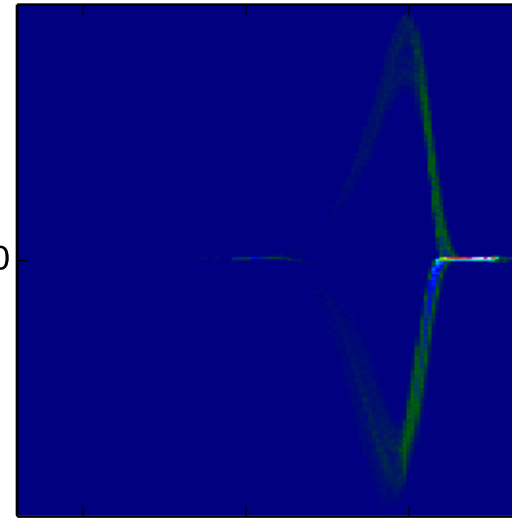
Curvature: -5200 : -4400



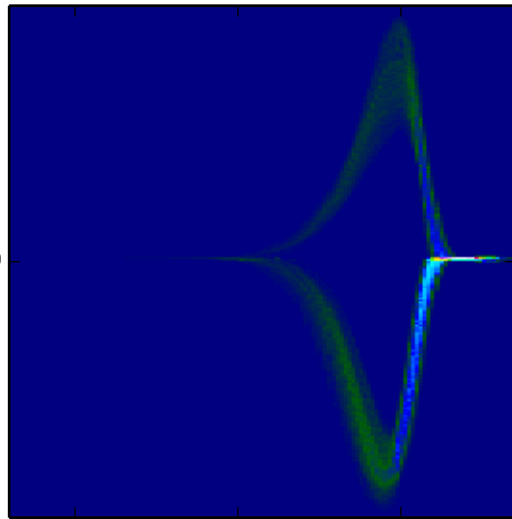
Curvature: -4400 : -3600



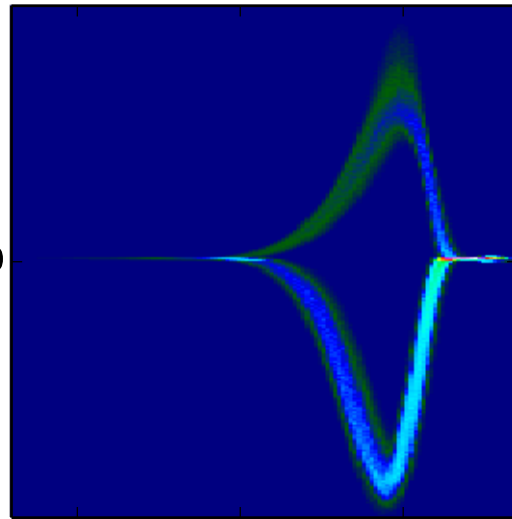
Curvature: -3600 : -2800



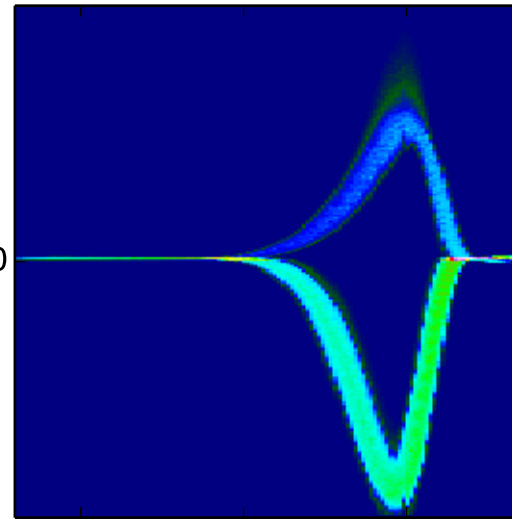
Curvature: -2800 : -2000



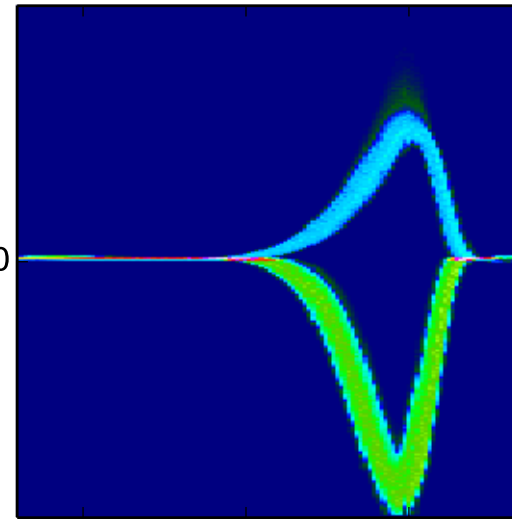
Curvature: -2000 : -1200



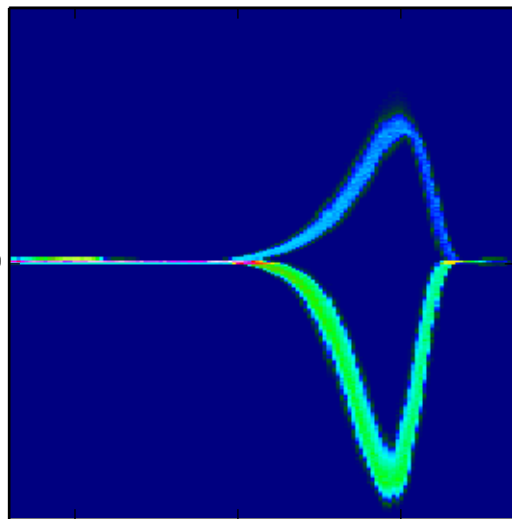
Curvature: -1200 : -400



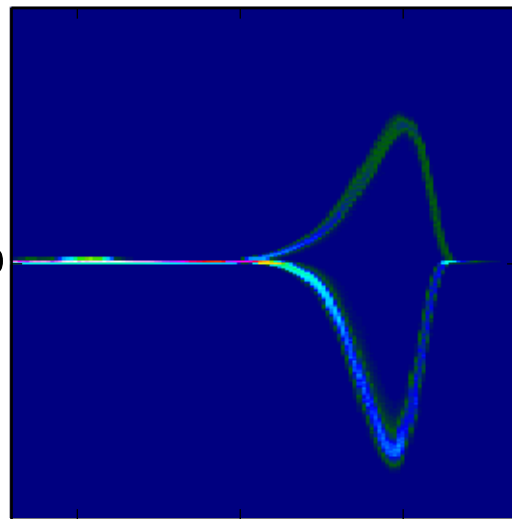
Curvature: -400 : 400



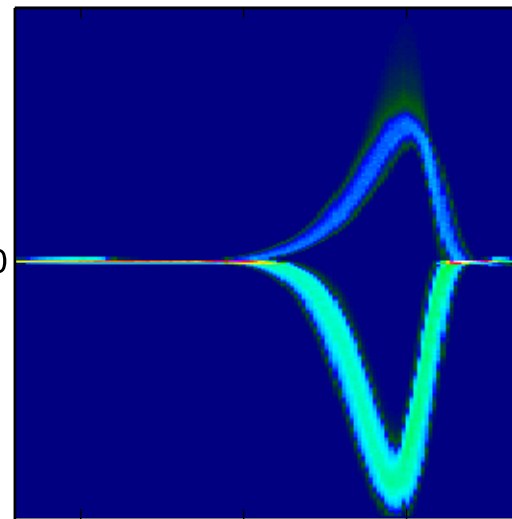
Curvature: 400 : 1200



Curvature: 1200 : 2000

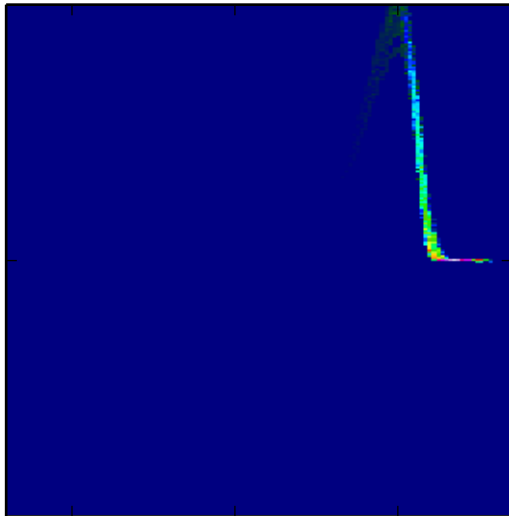


Sum

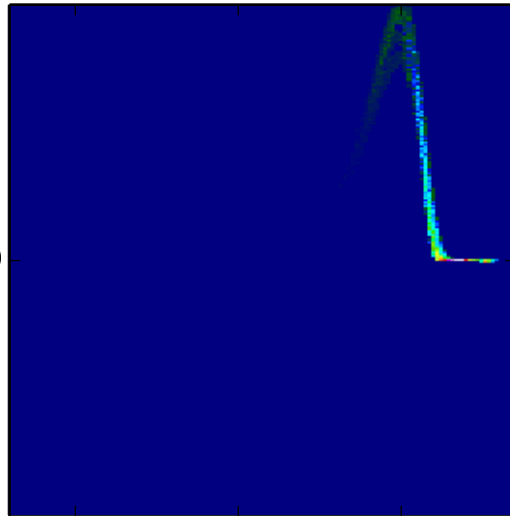


# Edge C2H4 $\rightleftharpoons$ HCO

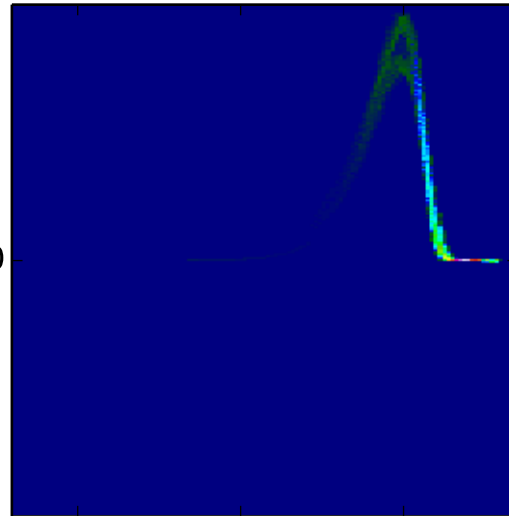
Curvature: -6000 : -5200



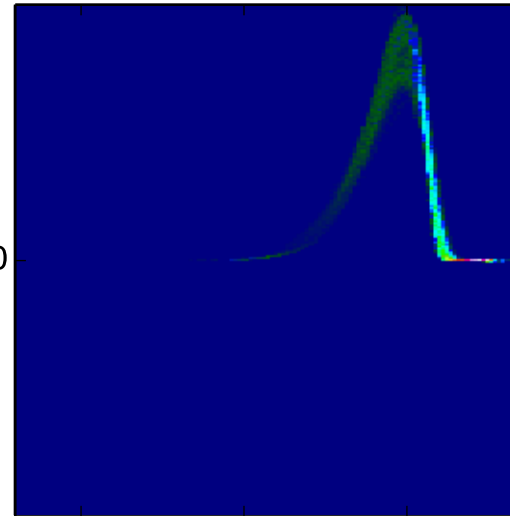
Curvature: -5200 : -4400



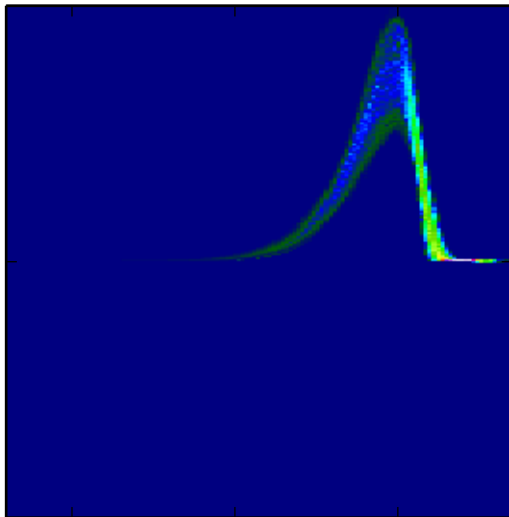
Curvature: -4400 : -3600



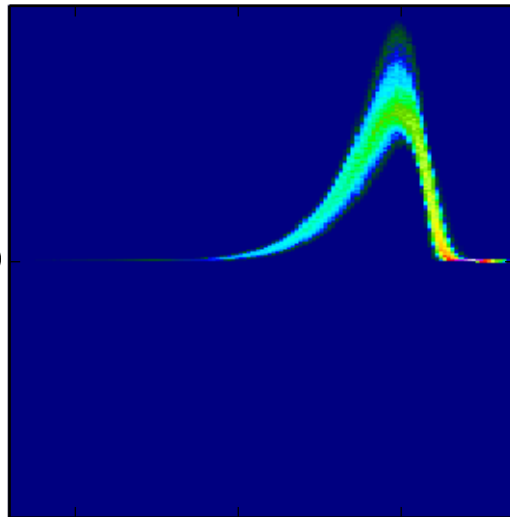
Curvature: -3600 : -2800



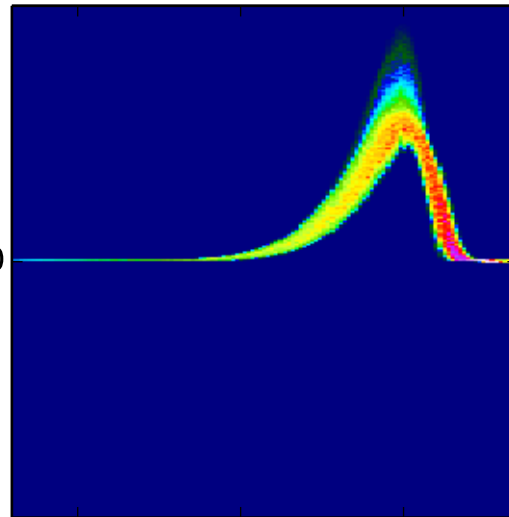
Curvature: -2800 : -2000



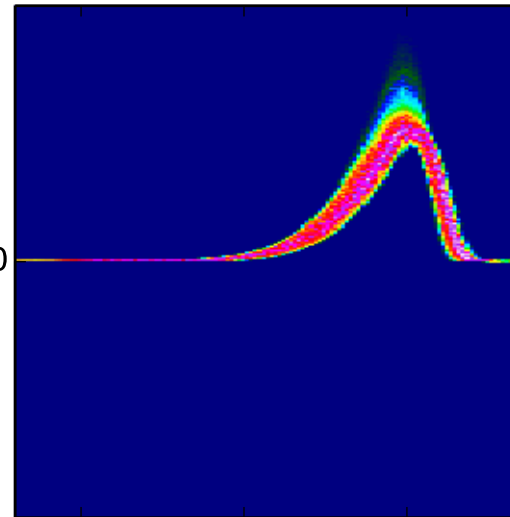
Curvature: -2000 : -1200



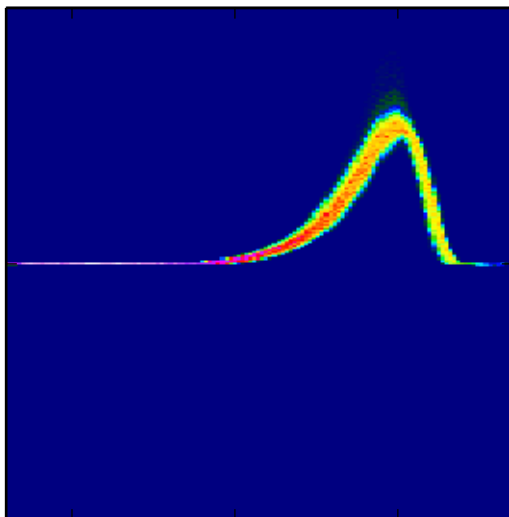
Curvature: -1200 : -400



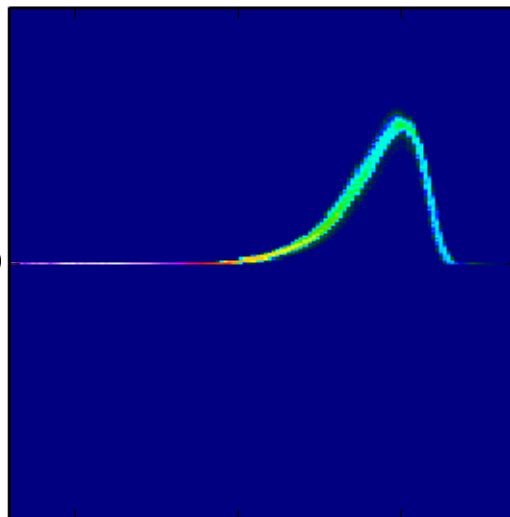
Curvature: -400 : 400



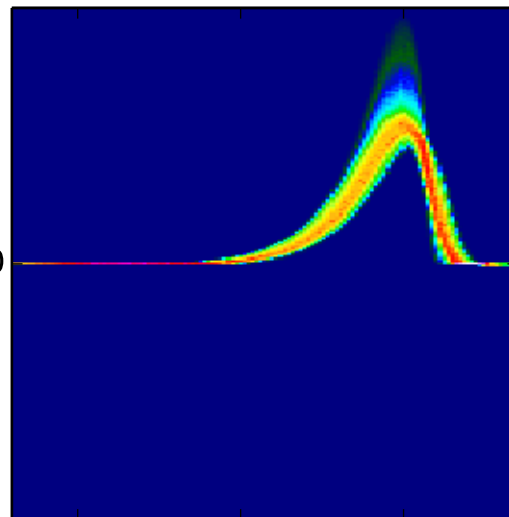
Curvature: 400 : 1200



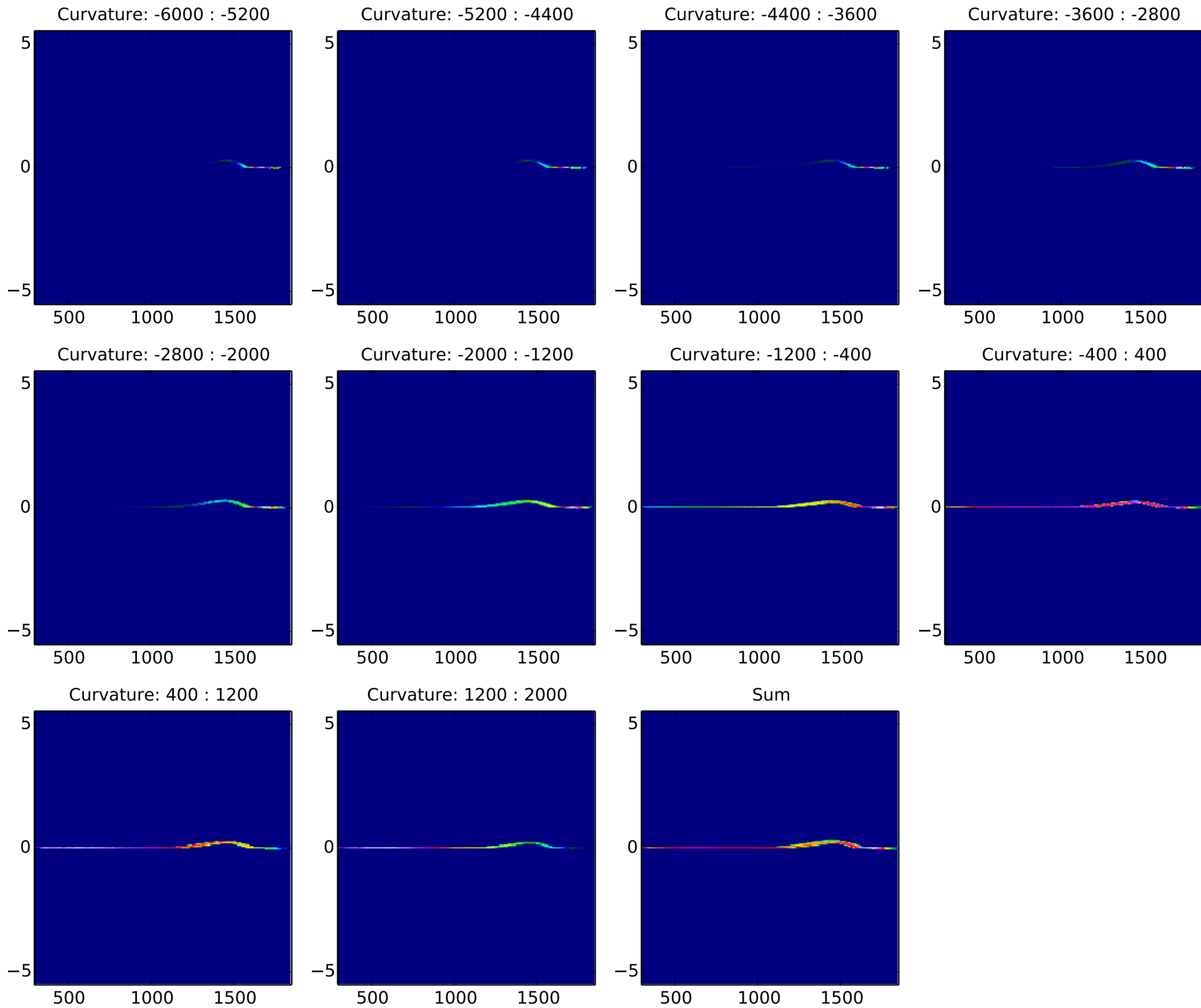
Curvature: 1200 : 2000



Sum

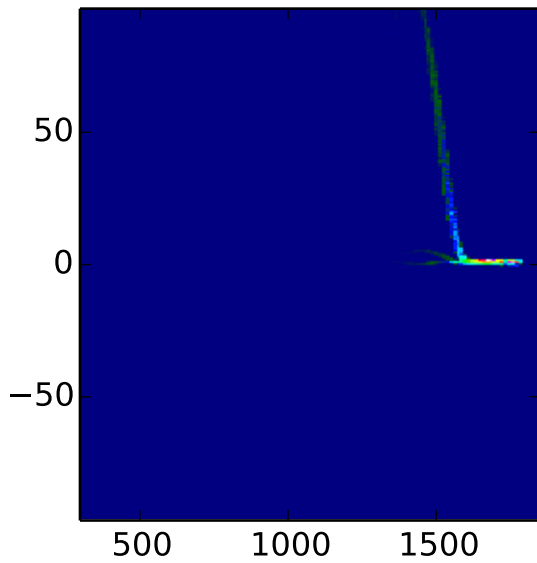


# Edge C2H5 $\rightleftharpoons$ CH2O

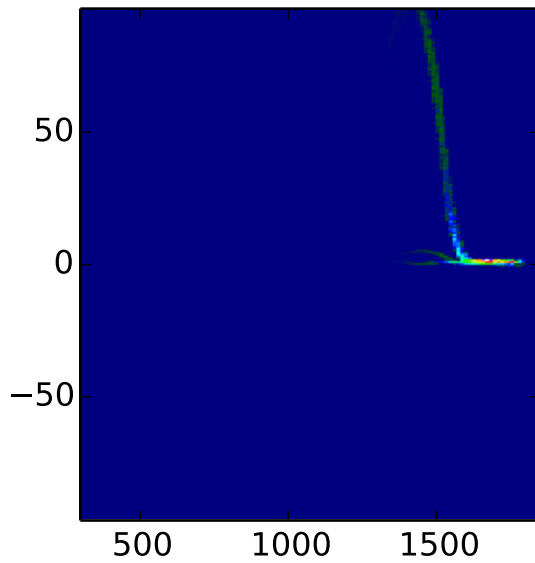


# Edge C2H5 $\rightleftharpoons$ CH3

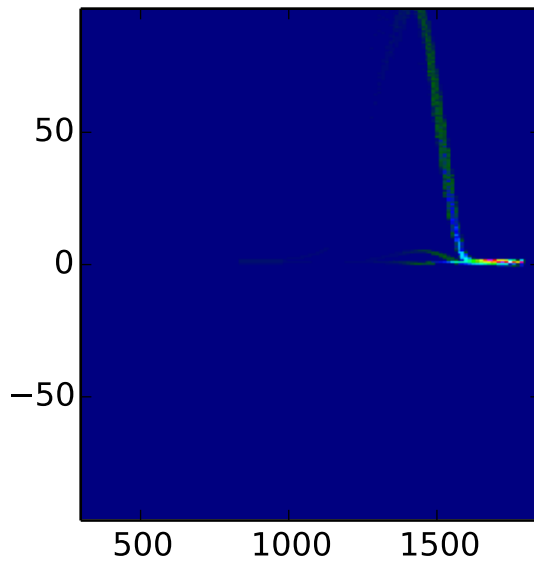
Curvature: -6000 : -5200



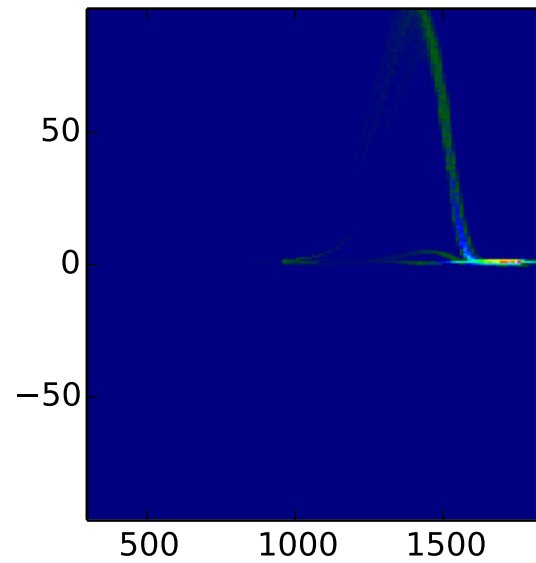
Curvature: -5200 : -4400



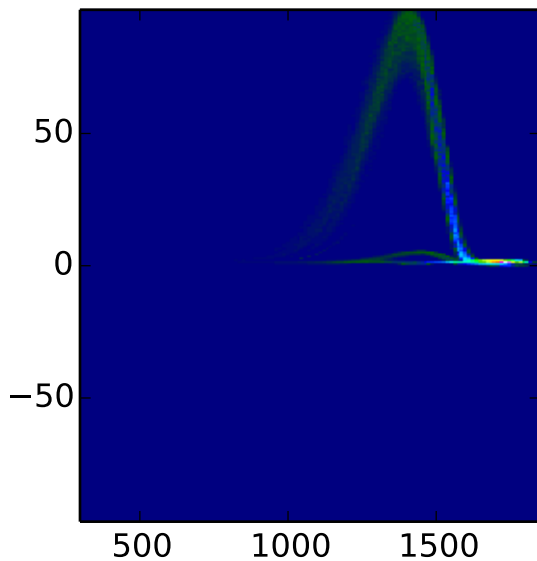
Curvature: -4400 : -3600



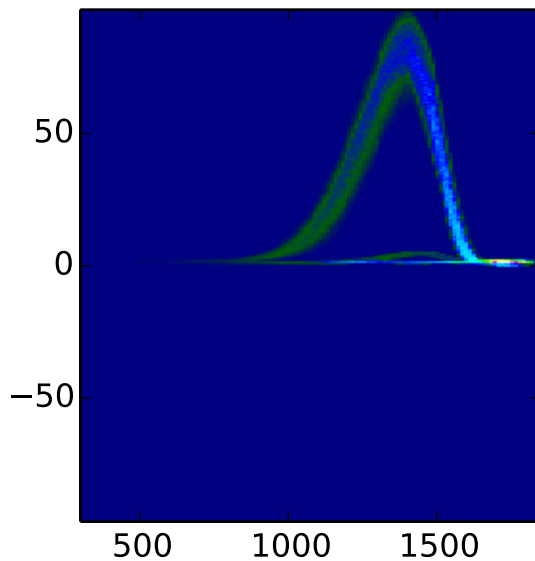
Curvature: -3600 : -2800



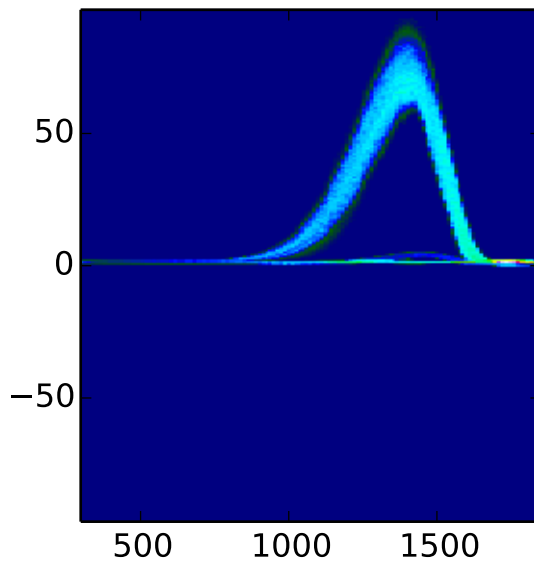
Curvature: -2800 : -2000



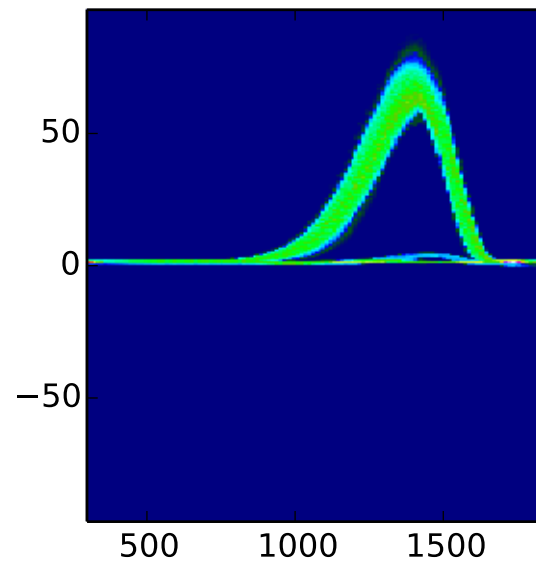
Curvature: -2000 : -1200



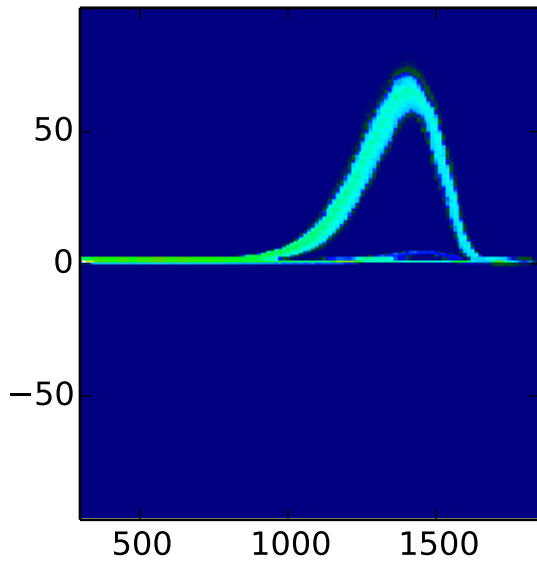
Curvature: -1200 : -400



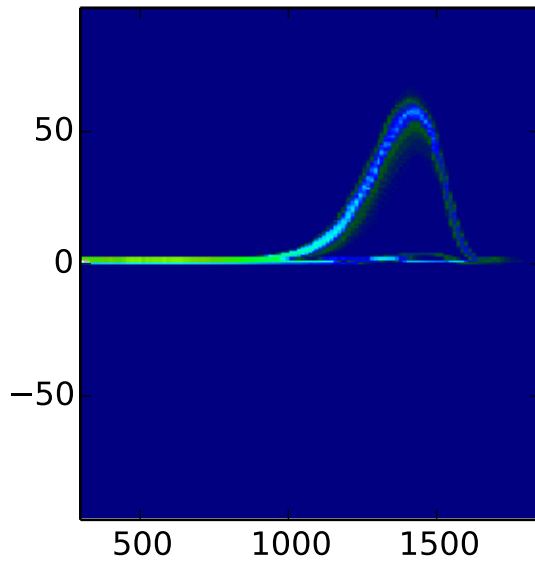
Curvature: -400 : 400



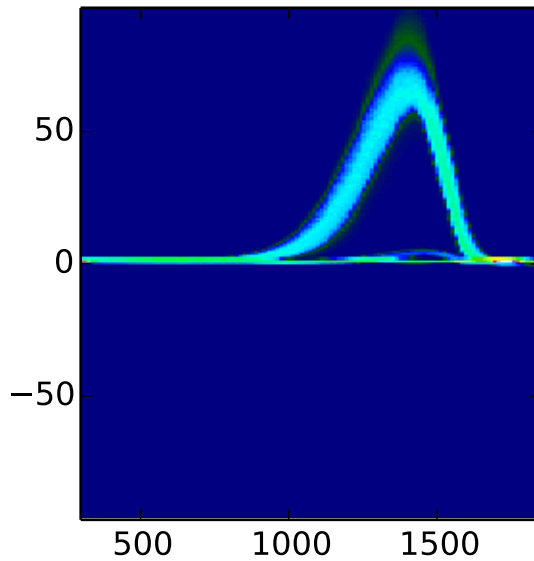
Curvature: 400 : 1200



Curvature: 1200 : 2000

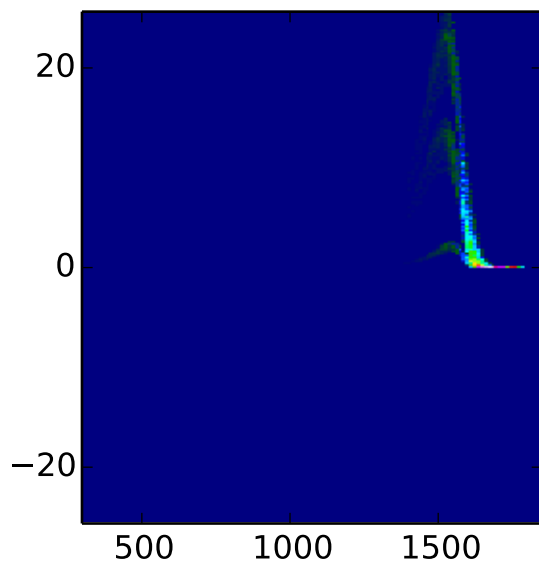


Sum

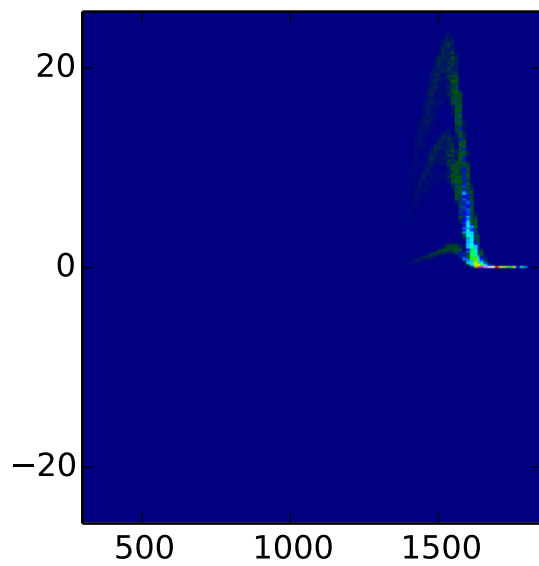


# Edge CH<sub>2</sub>CO $\rightleftharpoons$ HCCO

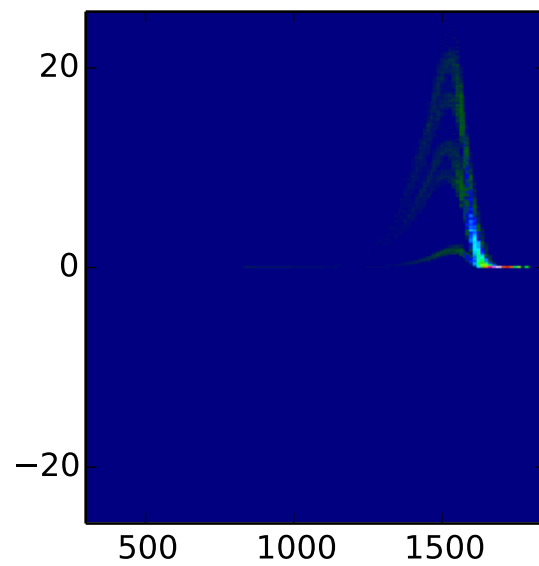
Curvature: -6000 : -5200



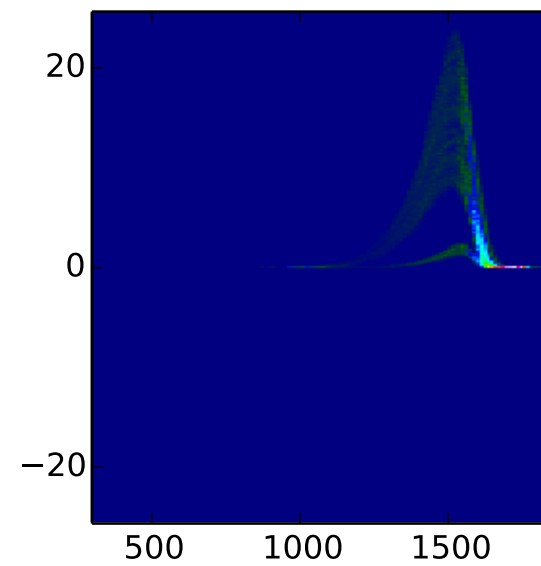
Curvature: -5200 : -4400



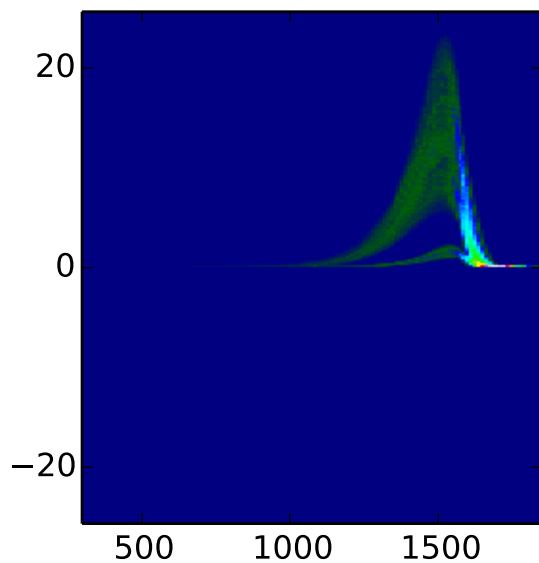
Curvature: -4400 : -3600



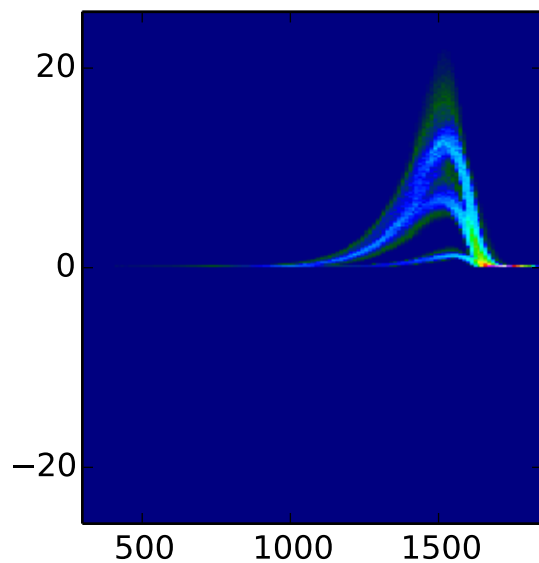
Curvature: -3600 : -2800



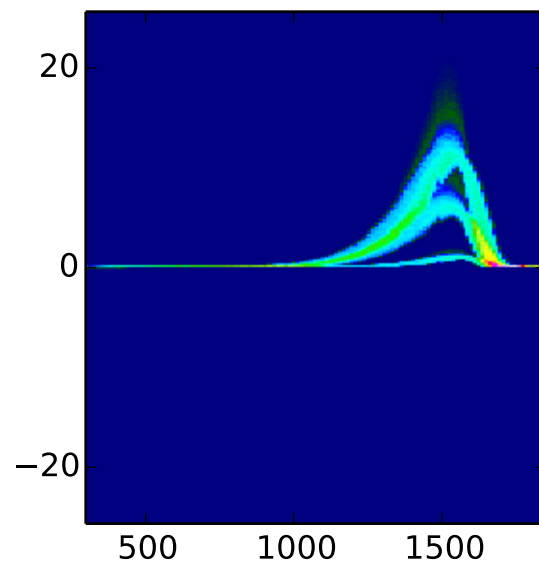
Curvature: -2800 : -2000



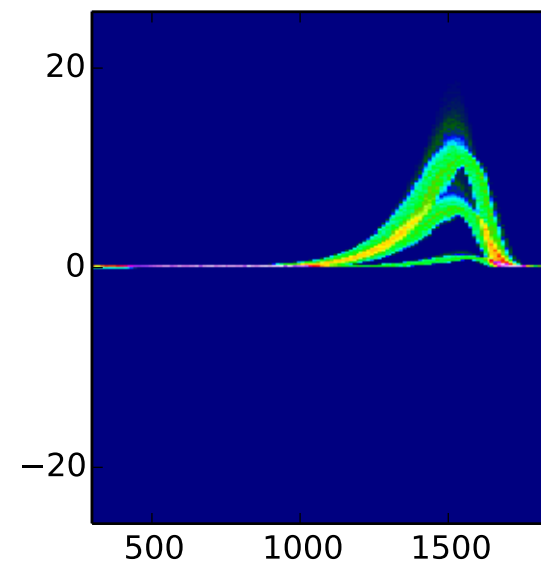
Curvature: -2000 : -1200



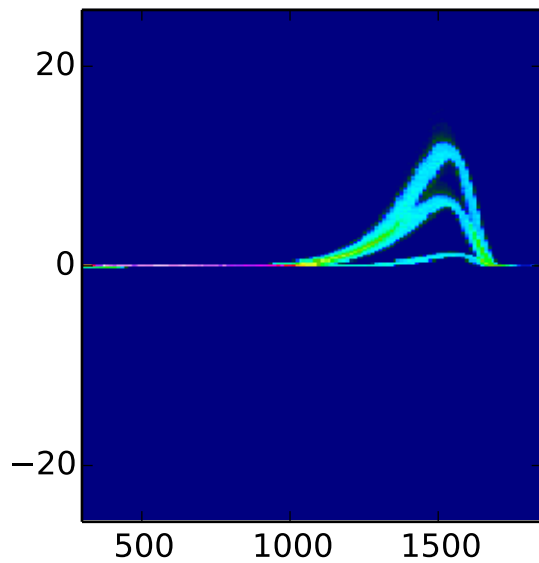
Curvature: -1200 : -400



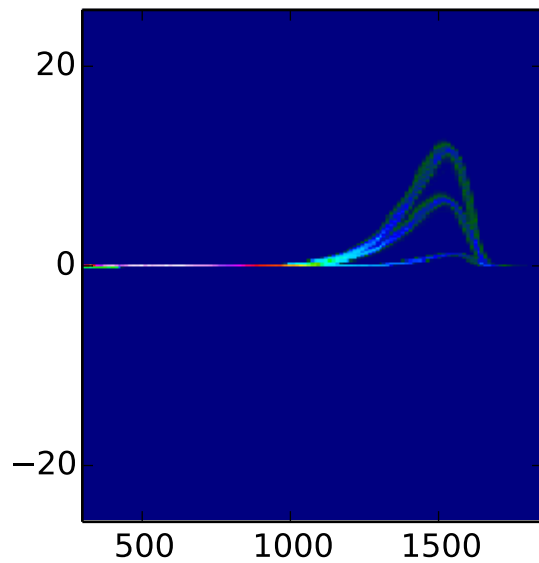
Curvature: -400 : 400



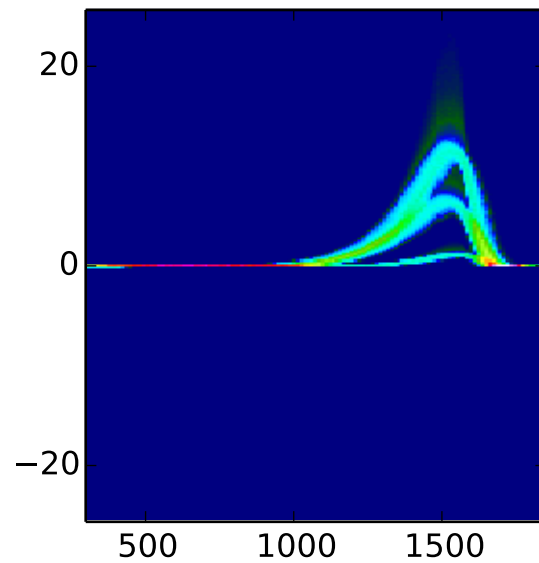
Curvature: 400 : 1200



Curvature: 1200 : 2000

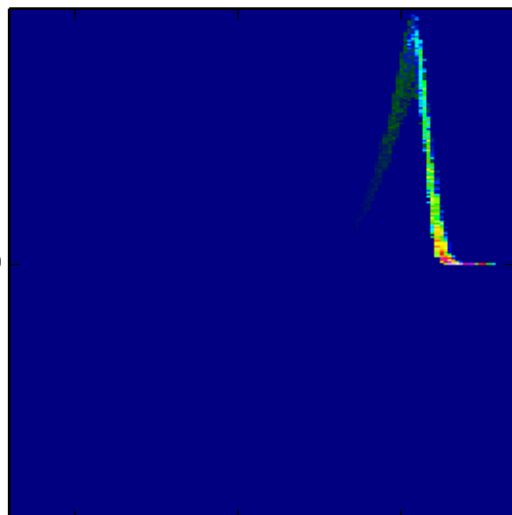


Sum

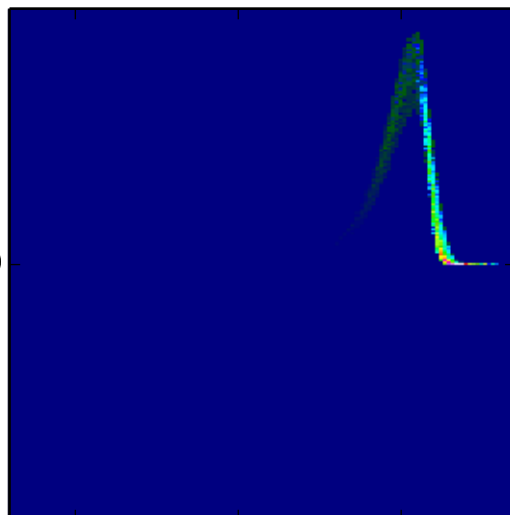


# Edge CH<sub>2</sub>CO $\rightleftharpoons$ CO<sub>2</sub>

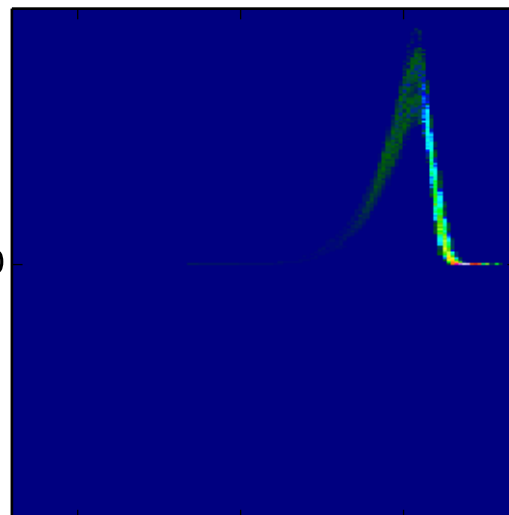
Curvature: -6000 : -5200



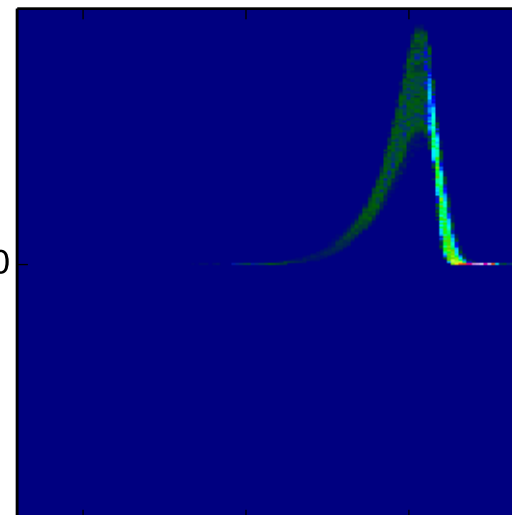
Curvature: -5200 : -4400



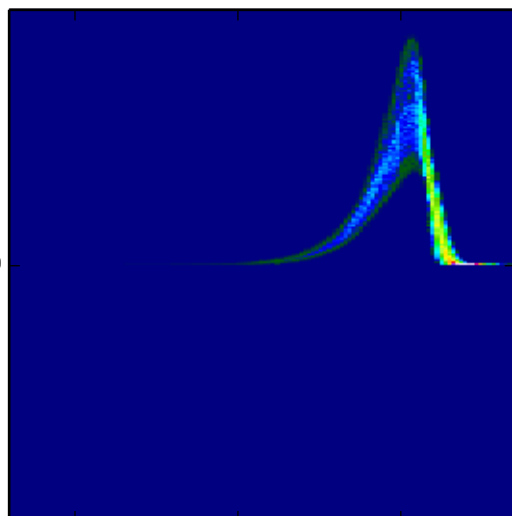
Curvature: -4400 : -3600



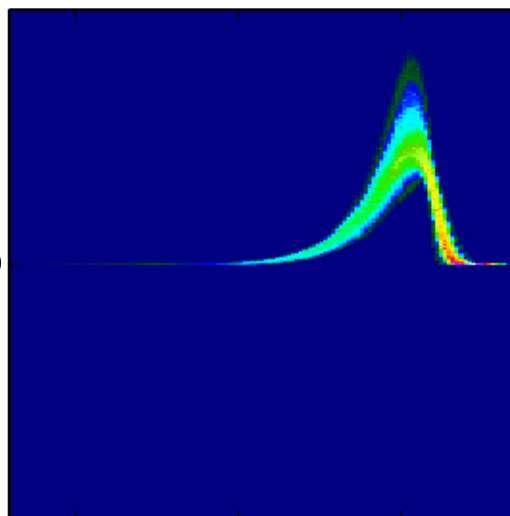
Curvature: -3600 : -2800



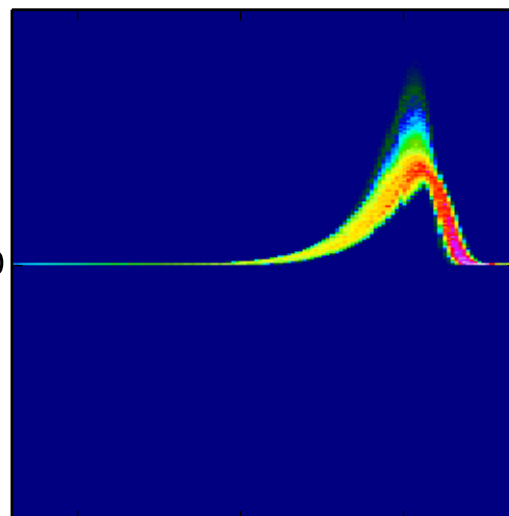
Curvature: -2800 : -2000



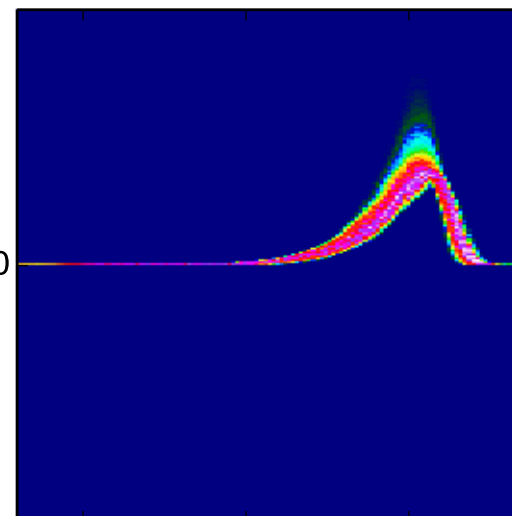
Curvature: -2000 : -1200



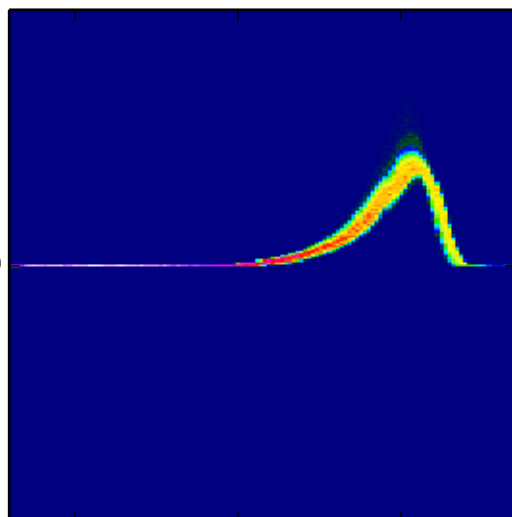
Curvature: -1200 : -400



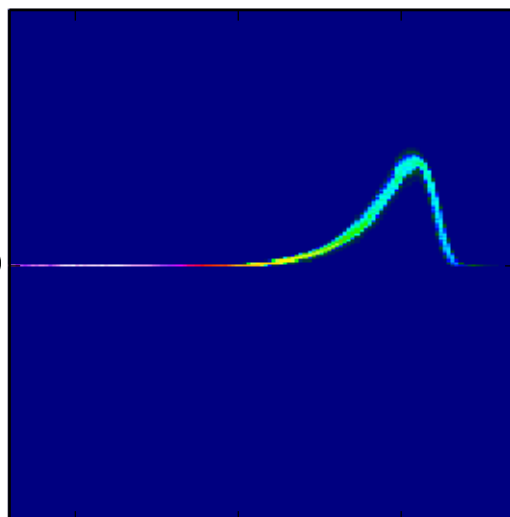
Curvature: -400 : 400



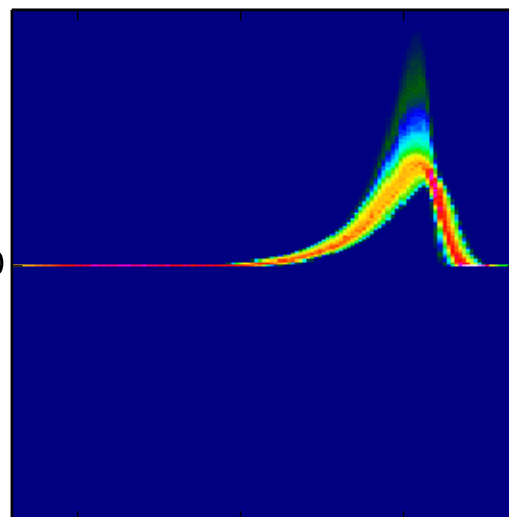
Curvature: 400 : 1200



Curvature: 1200 : 2000



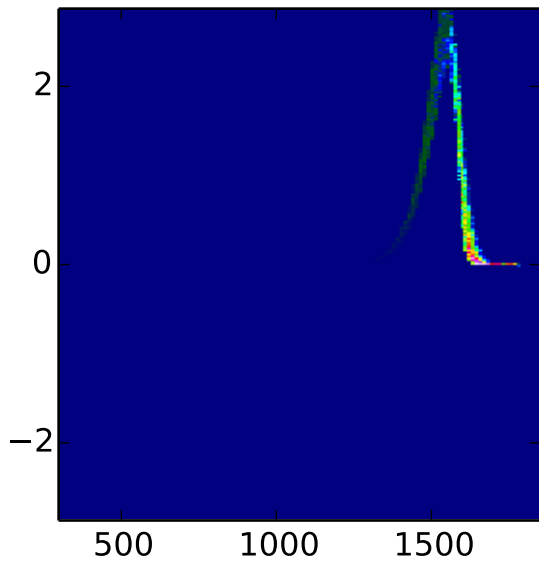
Sum



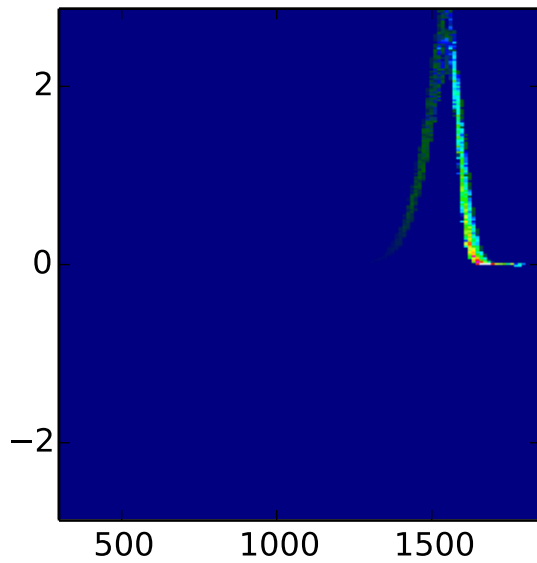


# Edge CH $\Leftrightarrow$ C

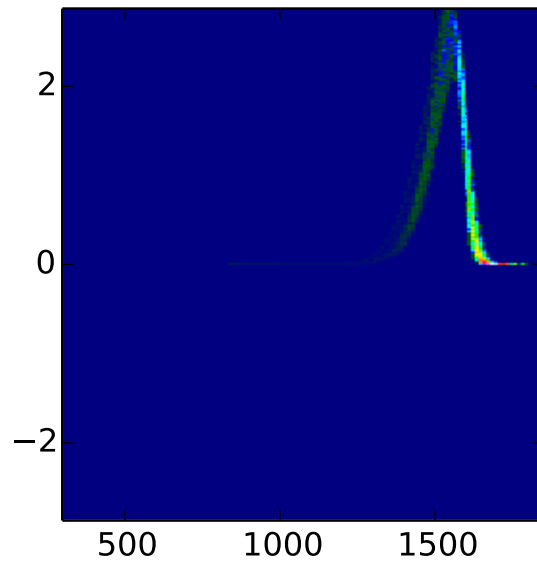
Curvature: -6000 : -5200



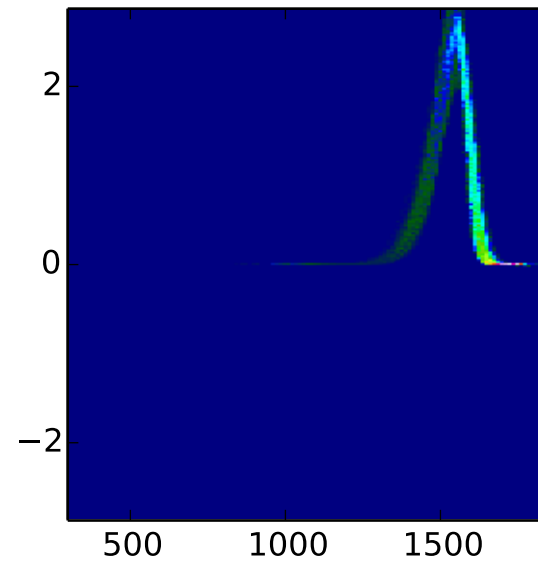
Curvature: -5200 : -4400



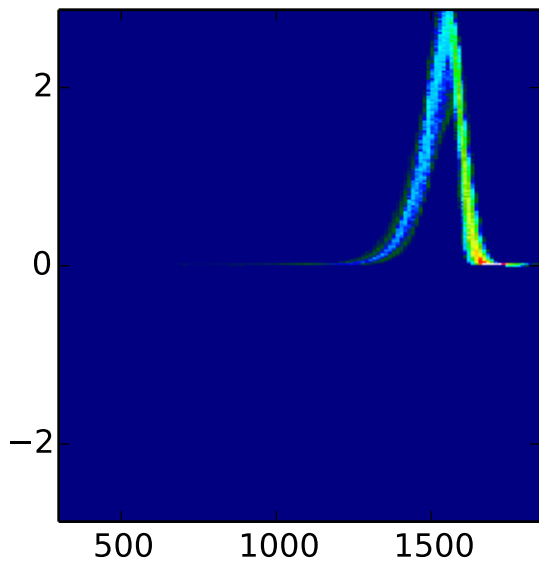
Curvature: -4400 : -3600



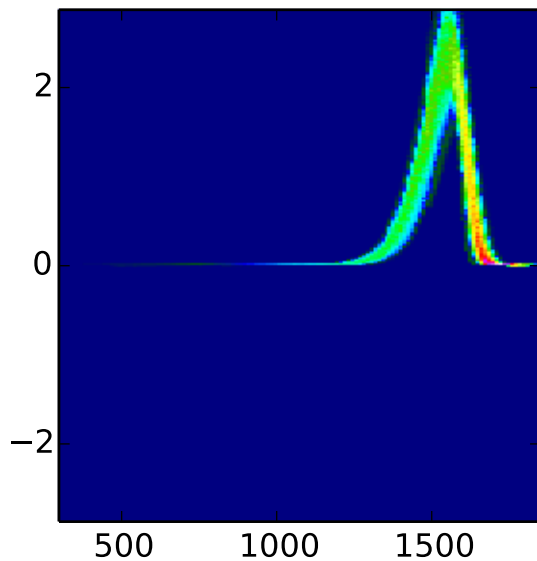
Curvature: -3600 : -2800



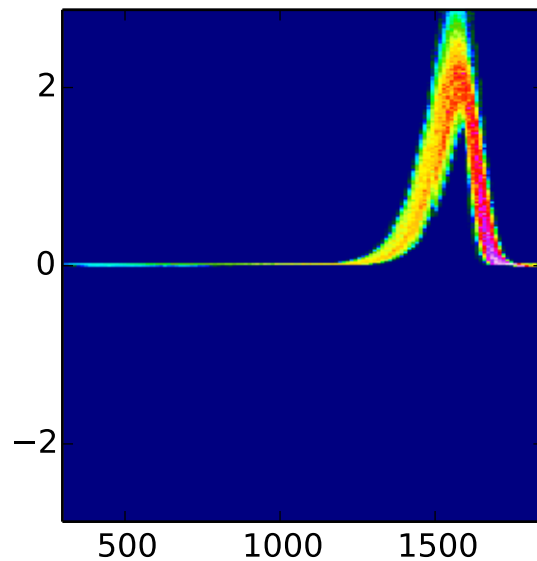
Curvature: -2800 : -2000



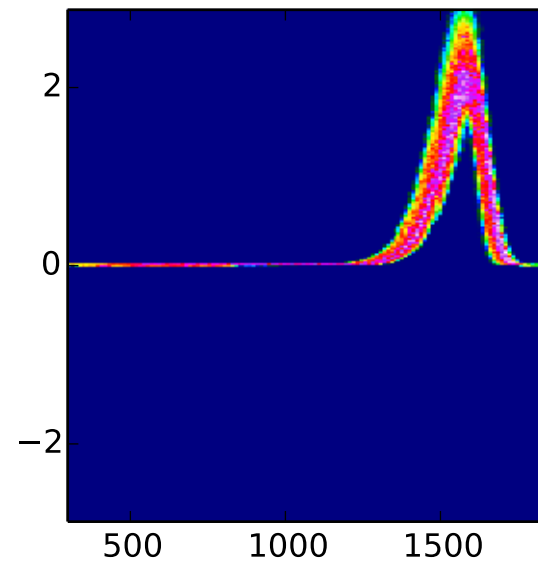
Curvature: -2000 : -1200



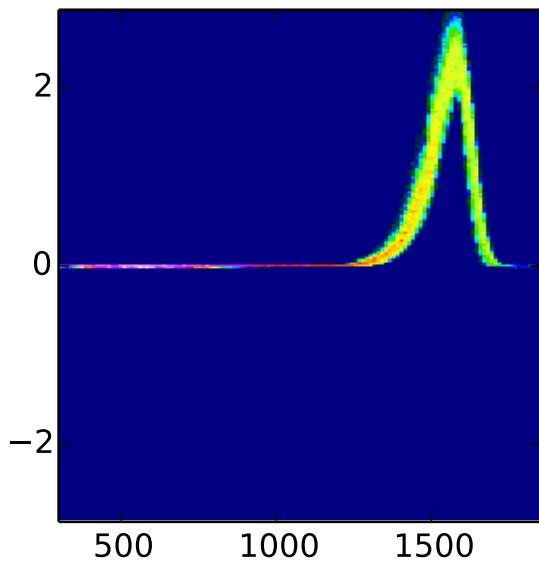
Curvature: -1200 : -400



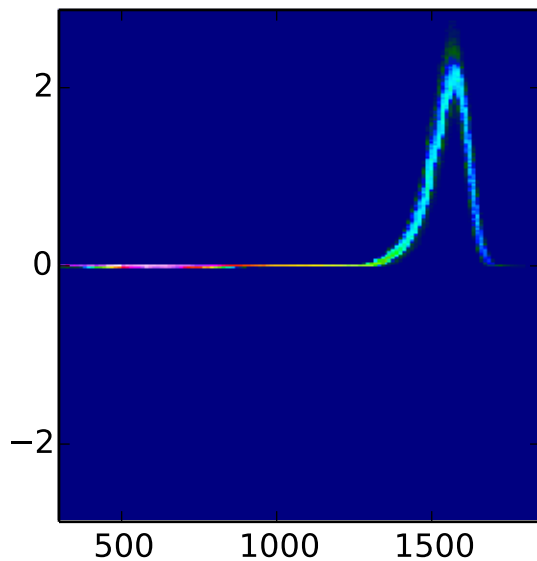
Curvature: -400 : 400



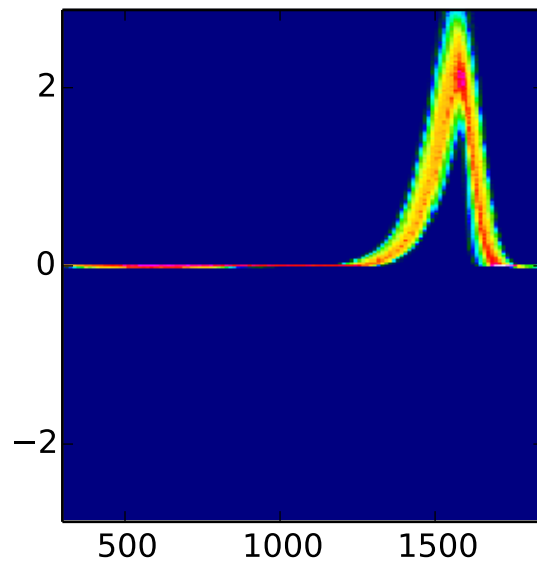
Curvature: 400 : 1200



Curvature: 1200 : 2000

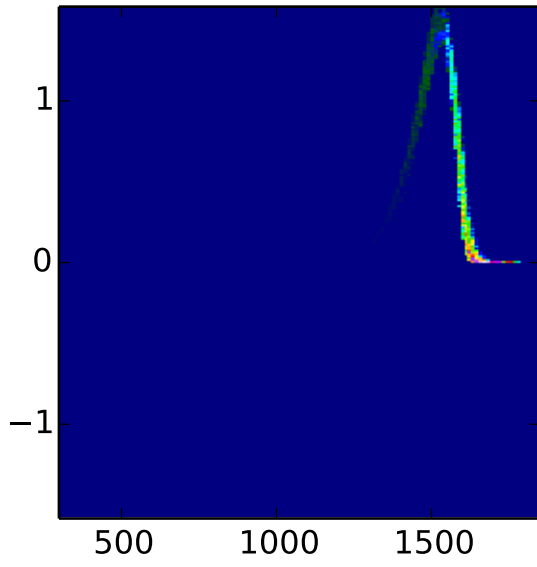


Sum

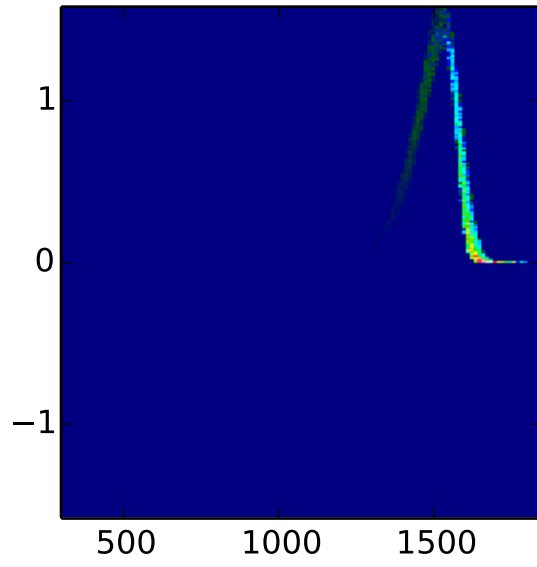


# Edge CH<sub>2</sub>(S) $\rightleftharpoons$ CH

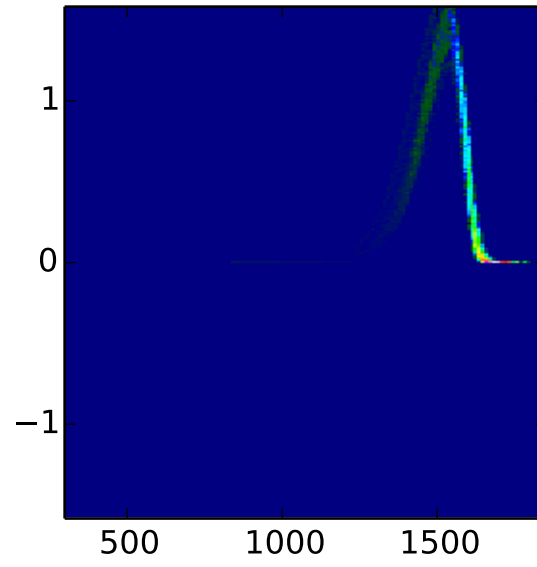
Curvature: -6000 : -5200



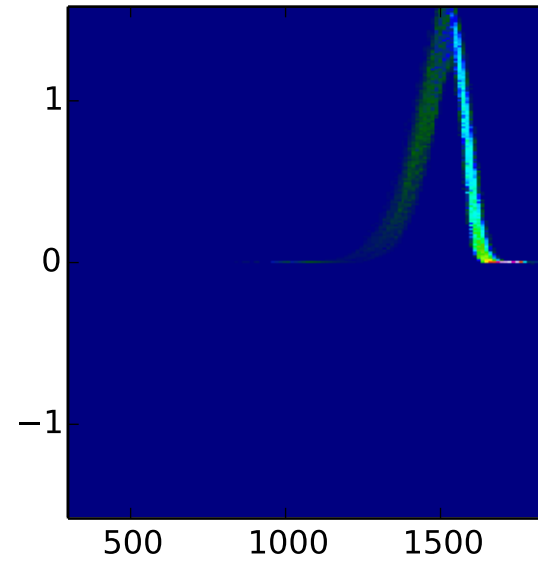
Curvature: -5200 : -4400



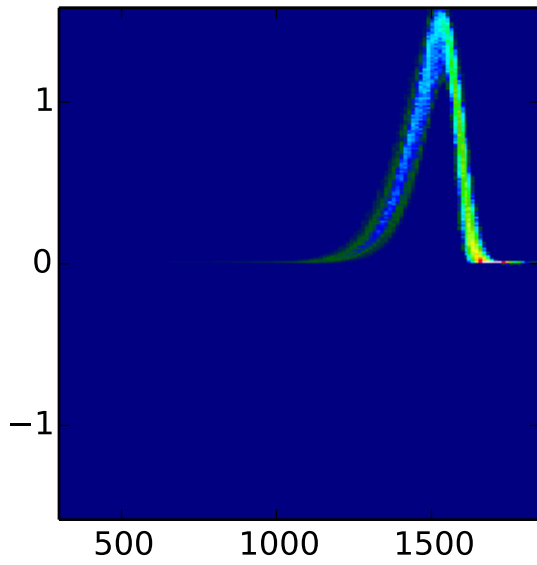
Curvature: -4400 : -3600



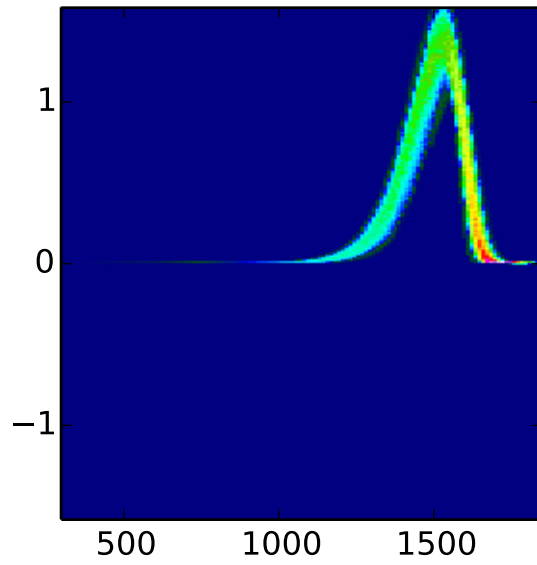
Curvature: -3600 : -2800



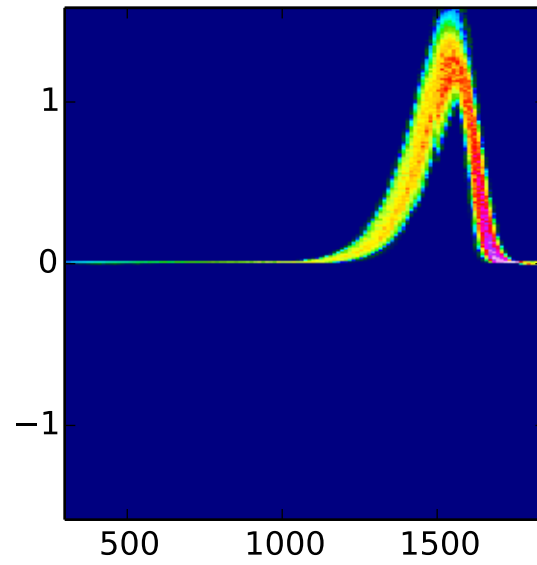
Curvature: -2800 : -2000



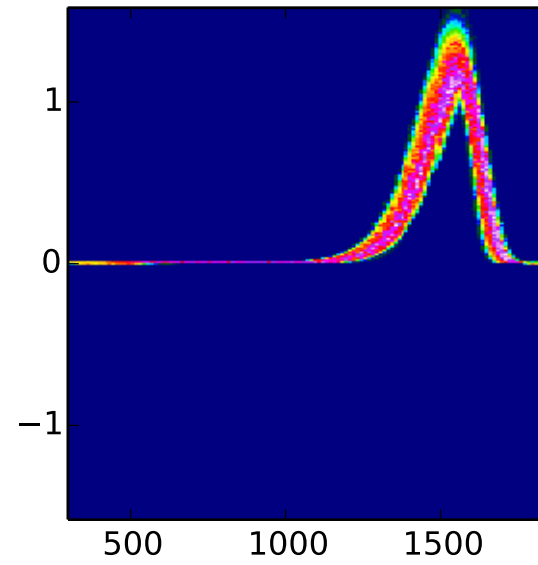
Curvature: -2000 : -1200



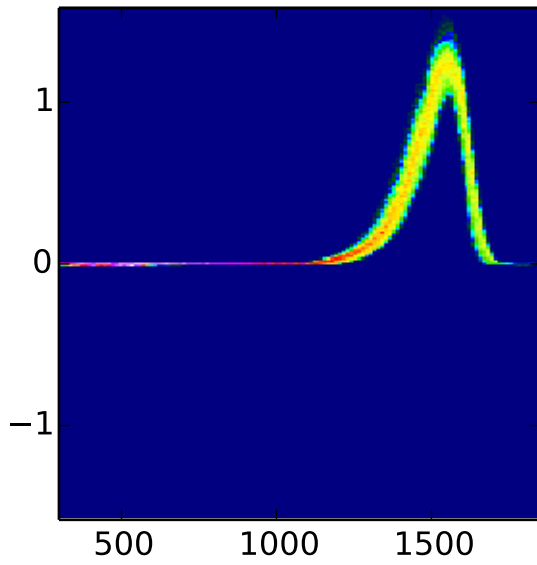
Curvature: -1200 : -400



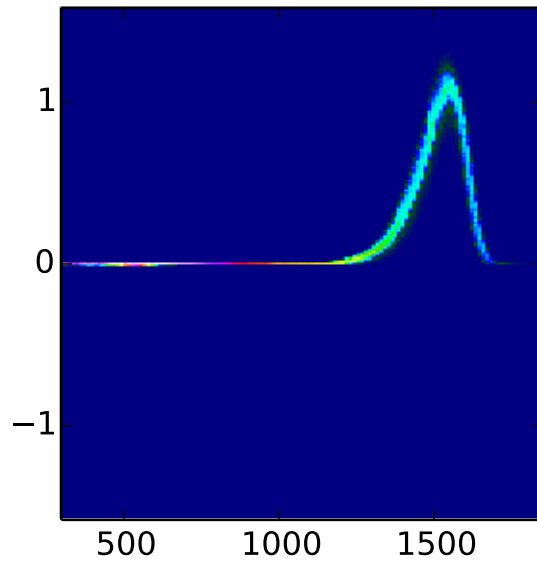
Curvature: -400 : 400



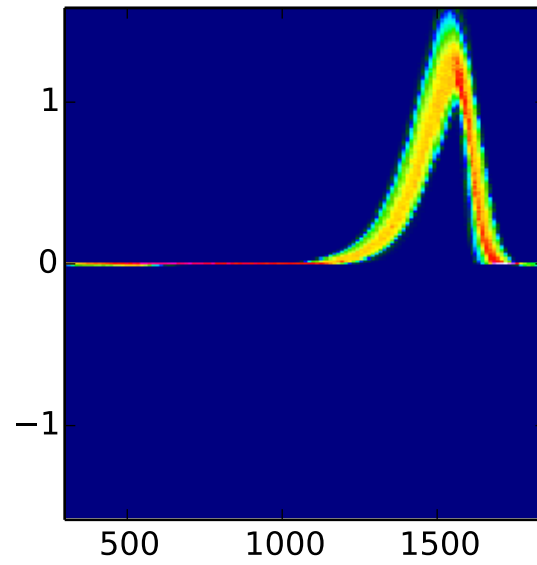
Curvature: 400 : 1200



Curvature: 1200 : 2000

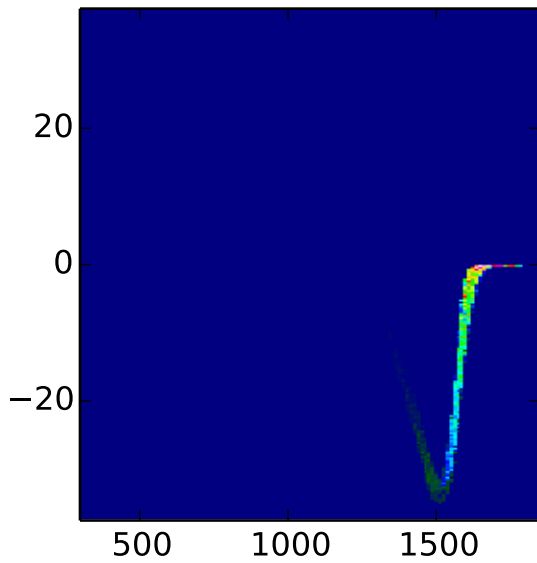


Sum

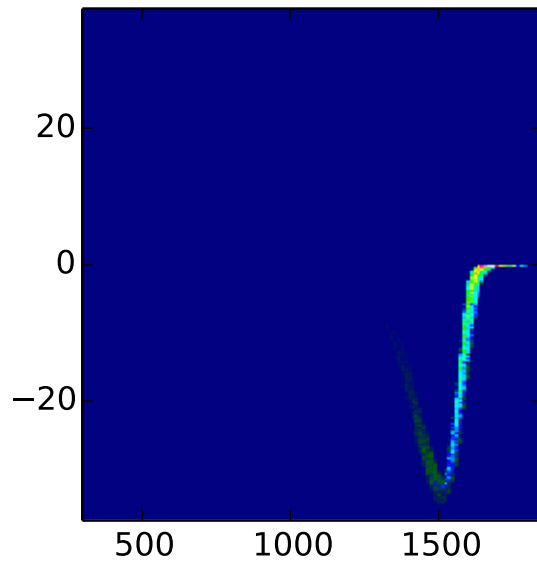


# Edge CH<sub>2</sub>OH $\rightleftharpoons$ CH<sub>3</sub>

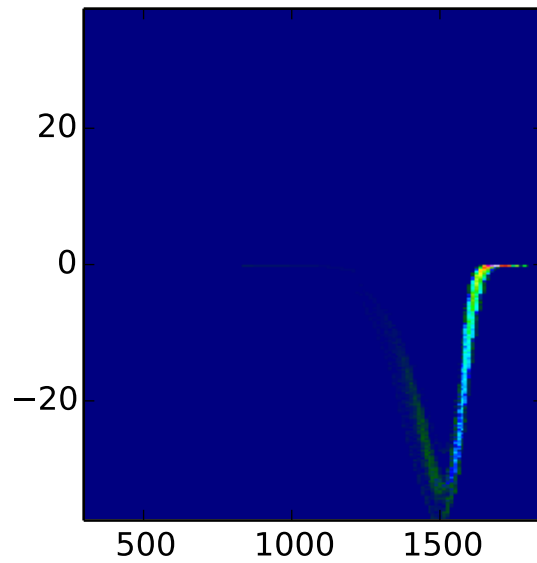
Curvature: -6000 : -5200



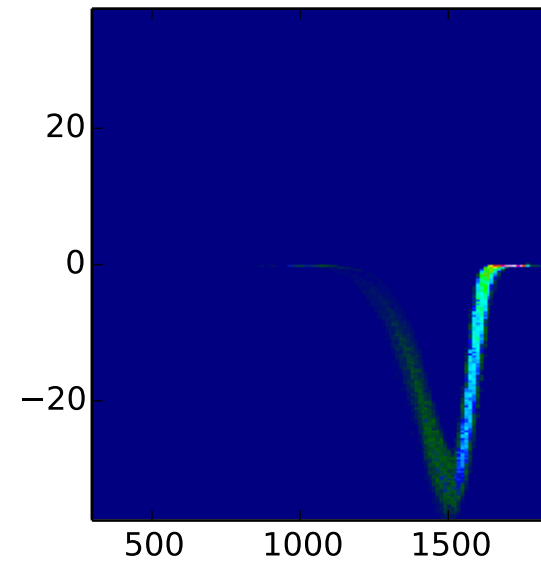
Curvature: -5200 : -4400



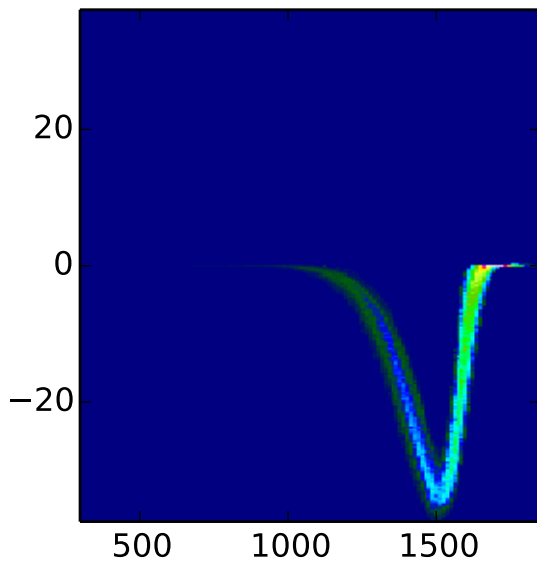
Curvature: -4400 : -3600



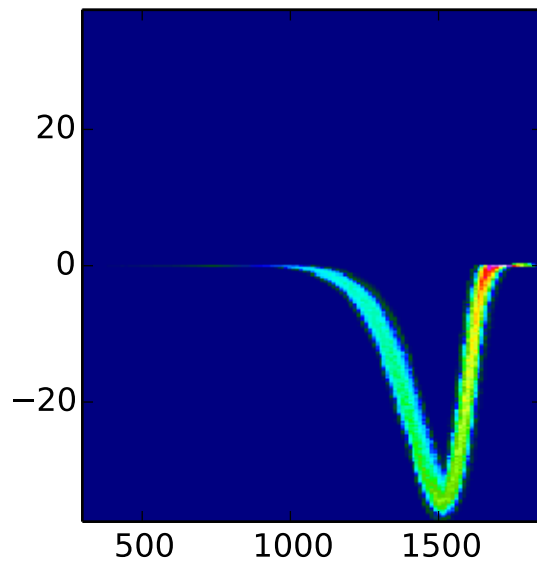
Curvature: -3600 : -2800



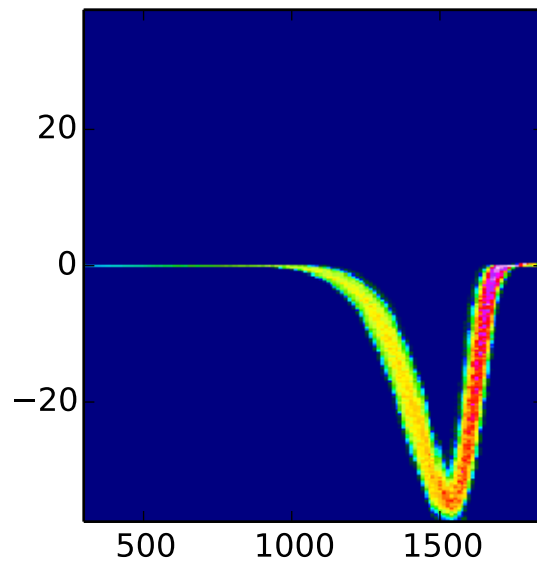
Curvature: -2800 : -2000



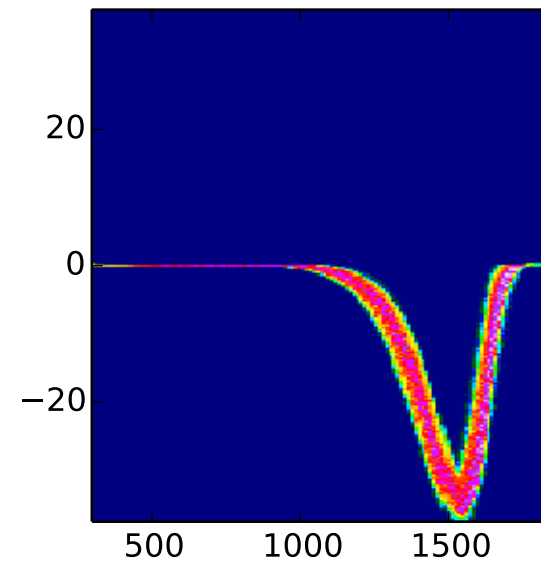
Curvature: -2000 : -1200



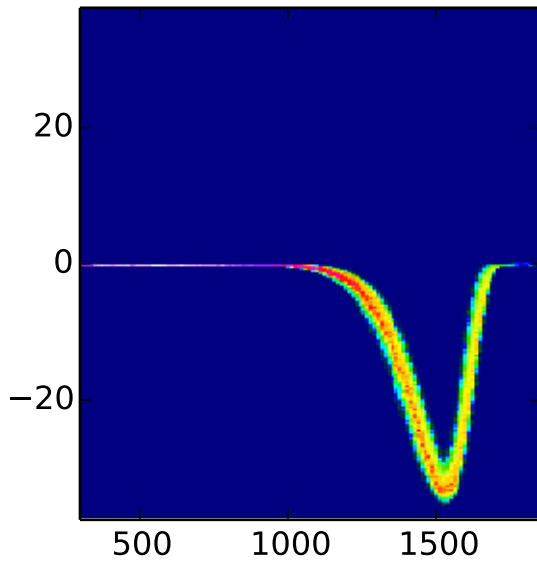
Curvature: -1200 : -400



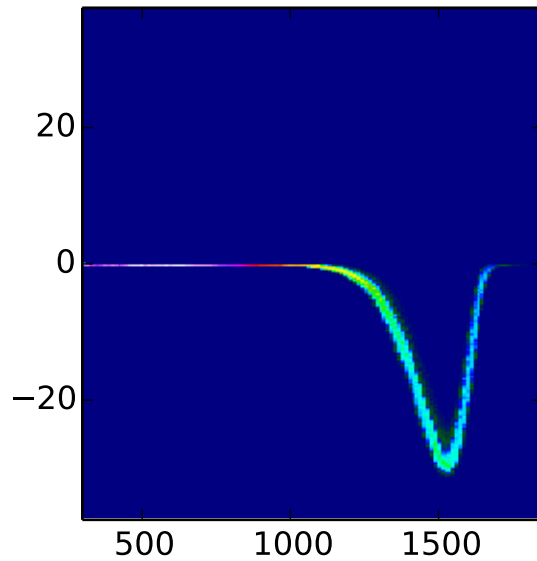
Curvature: -400 : 400



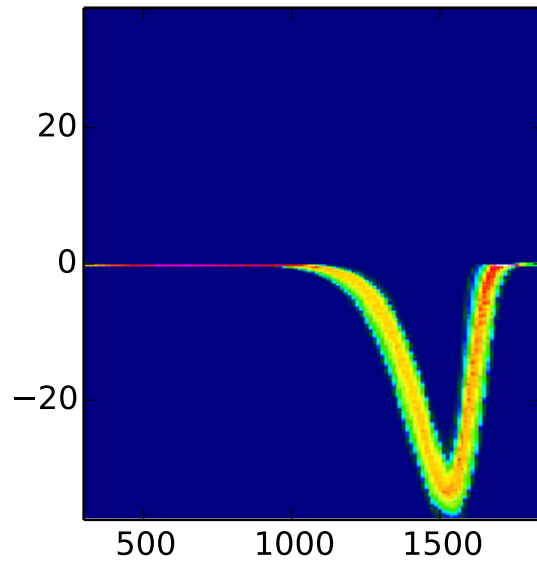
Curvature: 400 : 1200



Curvature: 1200 : 2000

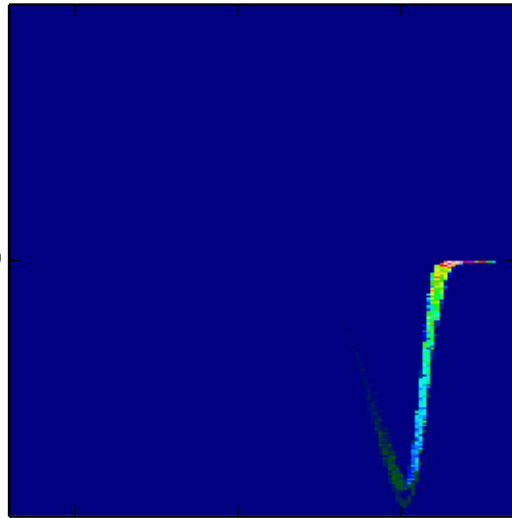


Sum

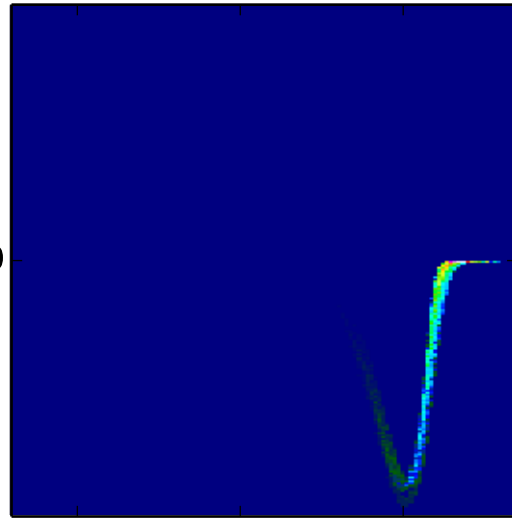


# Edge CH<sub>2</sub>OH $\rightleftharpoons$ CH<sub>2</sub>(S)

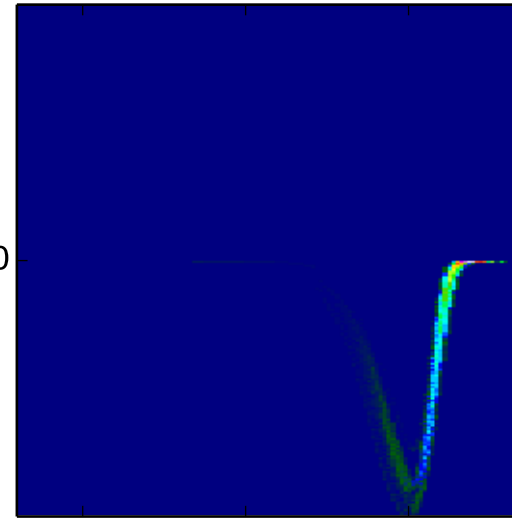
Curvature: -6000 : -5200



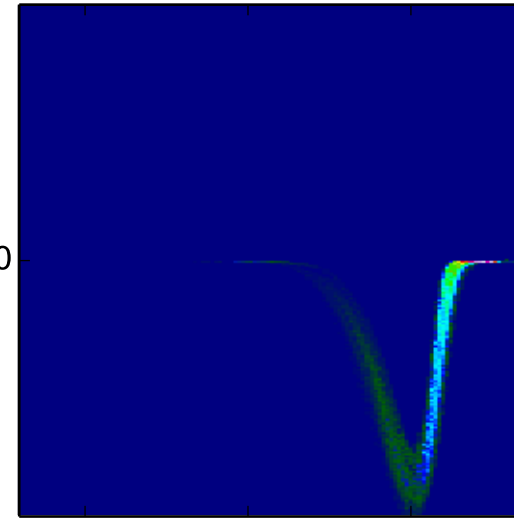
Curvature: -5200 : -4400



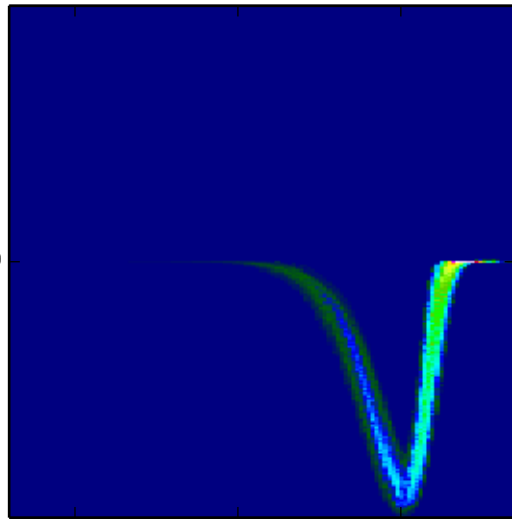
Curvature: -4400 : -3600



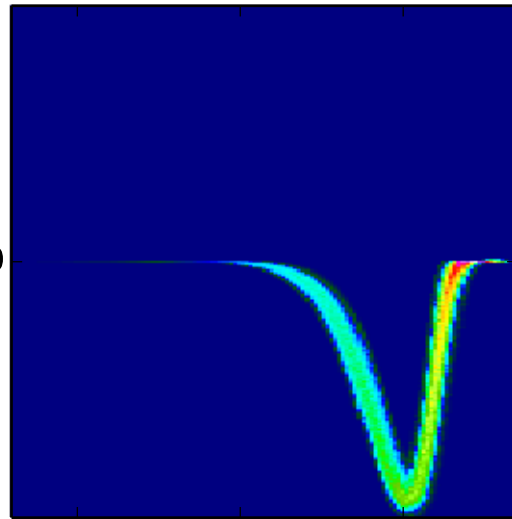
Curvature: -3600 : -2800



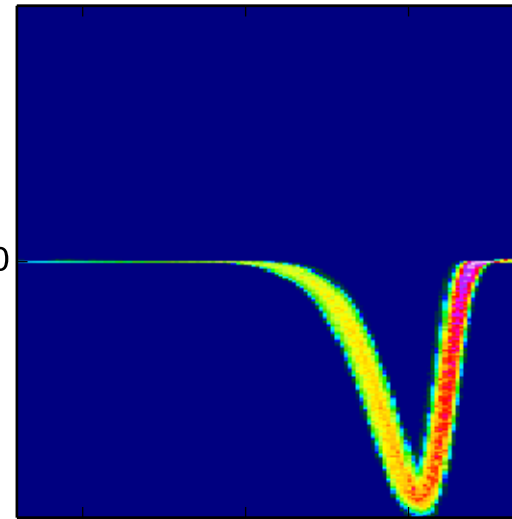
Curvature: -2800 : -2000



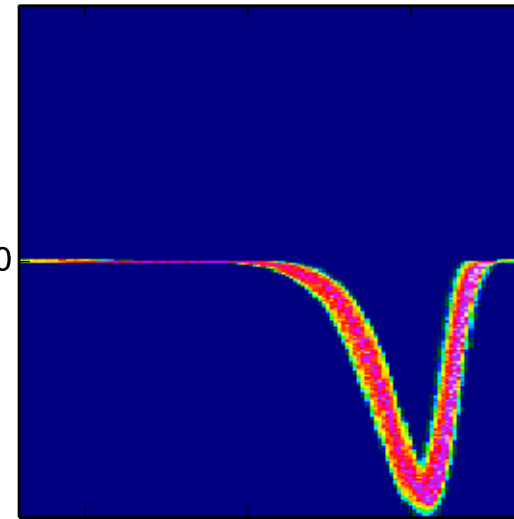
Curvature: -2000 : -1200



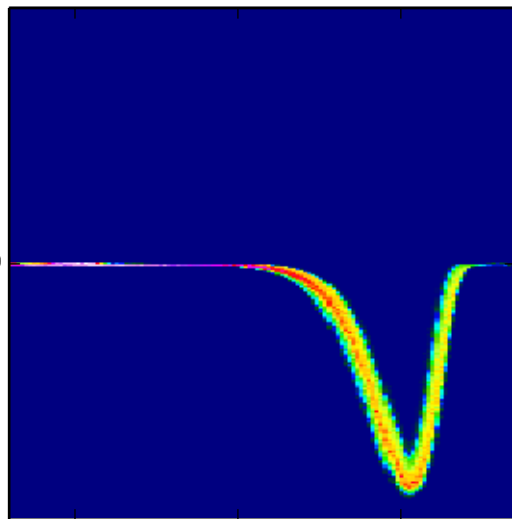
Curvature: -1200 : -400



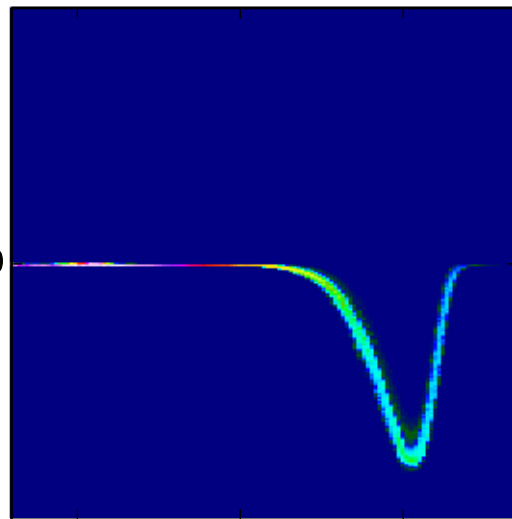
Curvature: -400 : 400



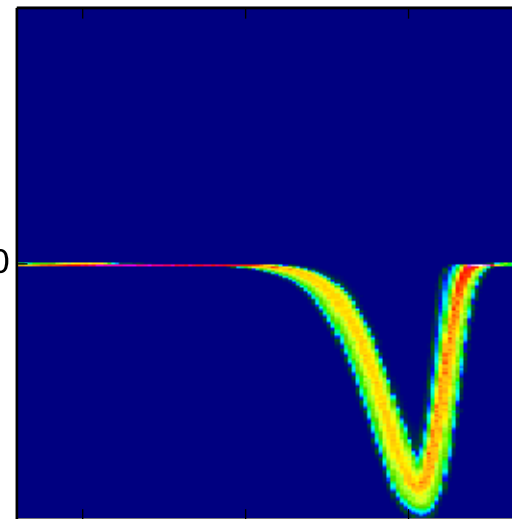
Curvature: 400 : 1200



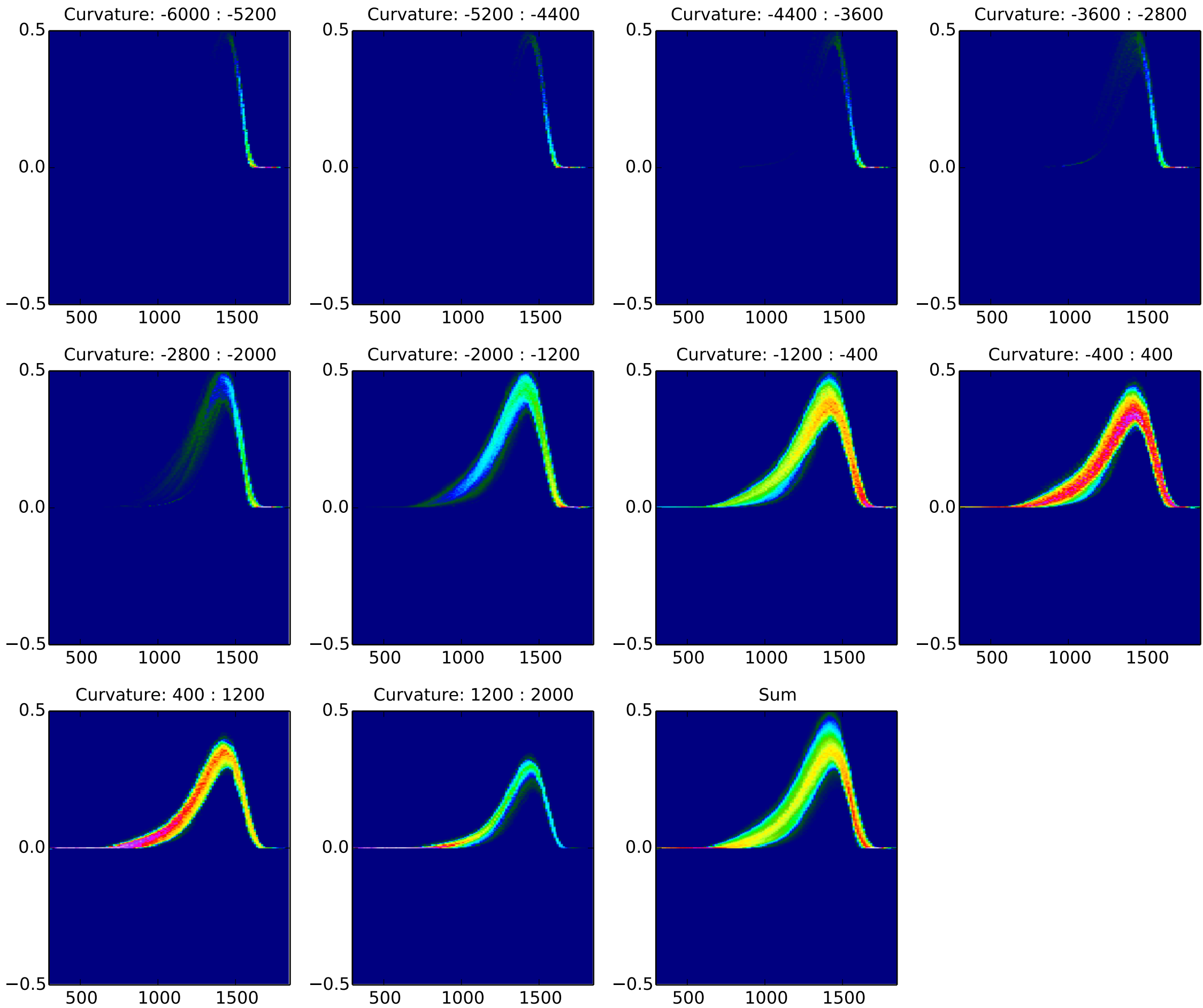
Curvature: 1200 : 2000



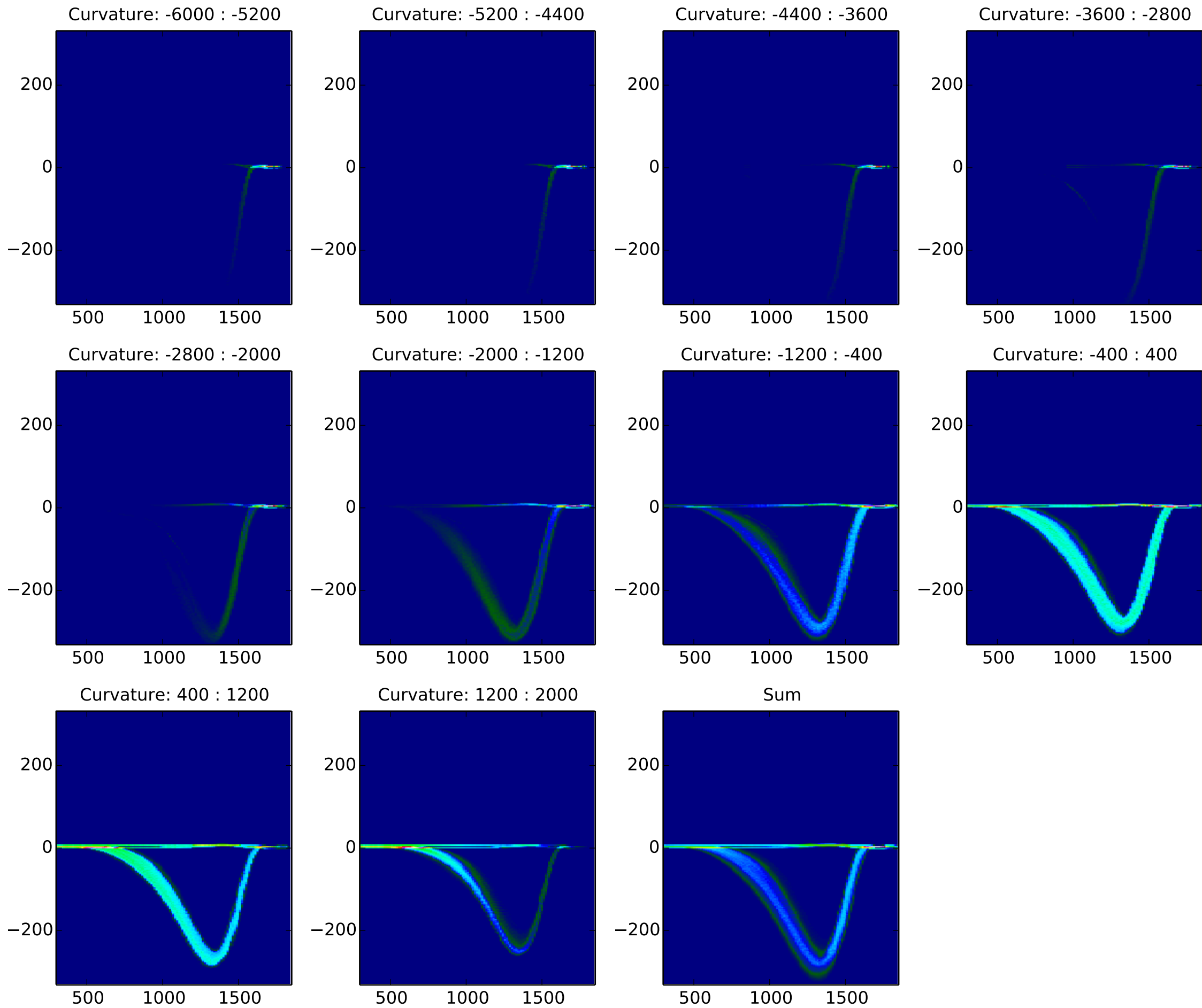
Sum



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

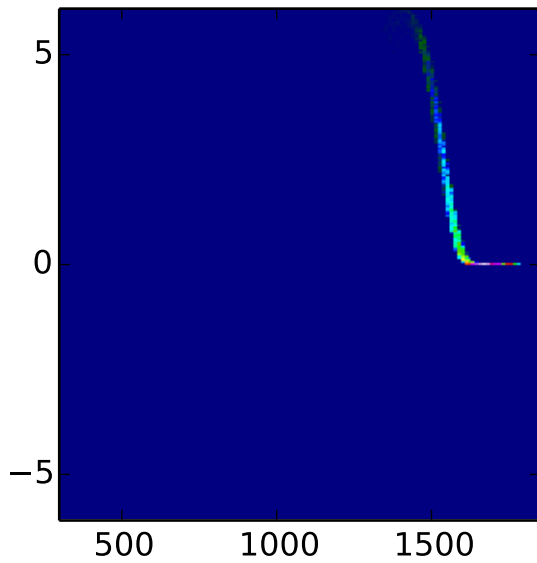


# Edge CH3O $\rightleftharpoons$ CH3

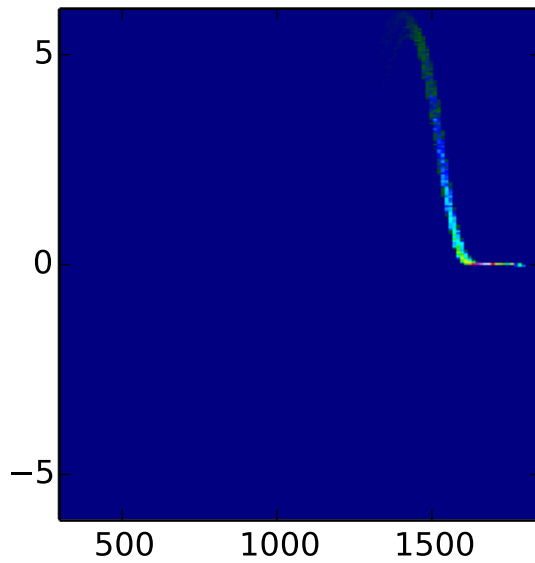


# Edge CH3O $\rightleftharpoons$ CH2(S)

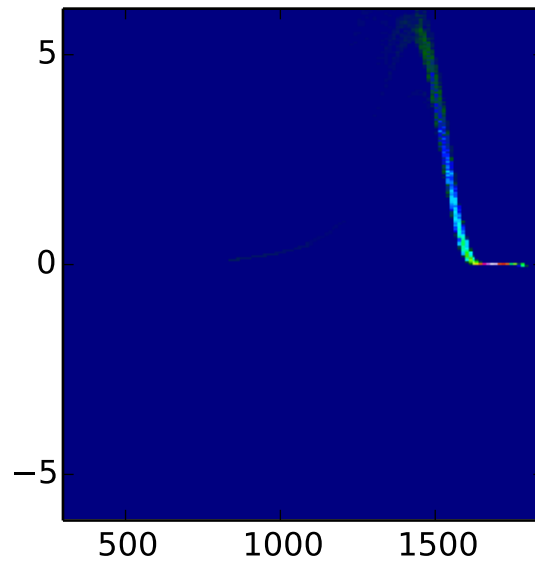
Curvature: -6000 : -5200



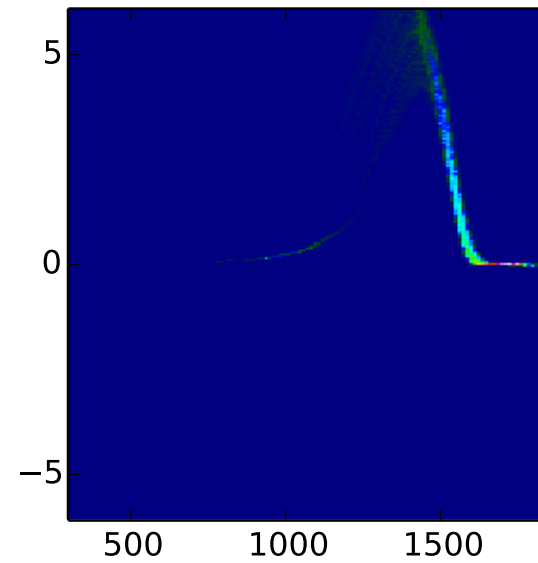
Curvature: -5200 : -4400



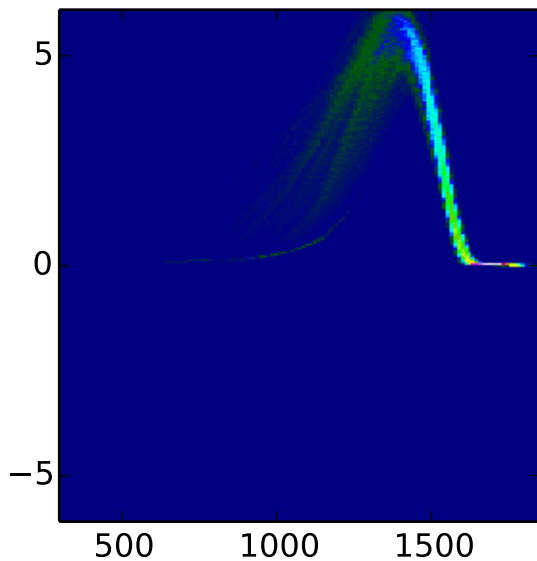
Curvature: -4400 : -3600



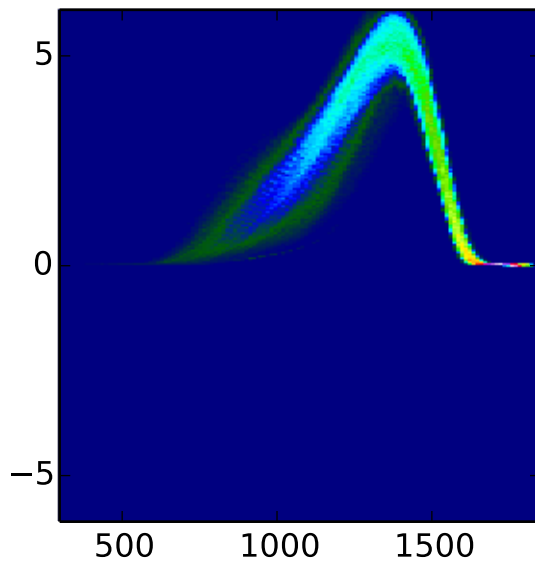
Curvature: -3600 : -2800



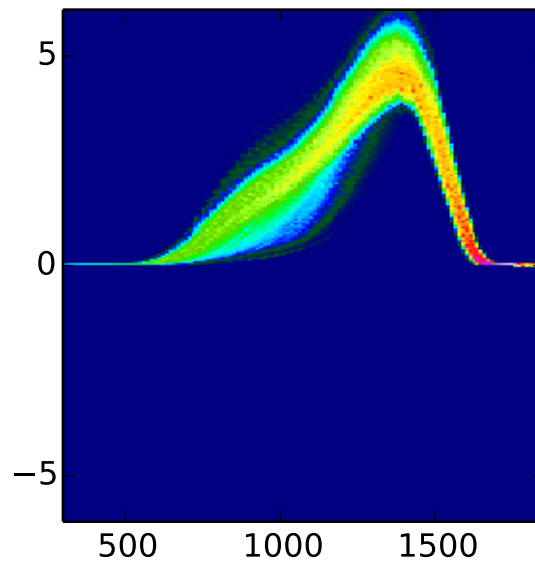
Curvature: -2800 : -2000



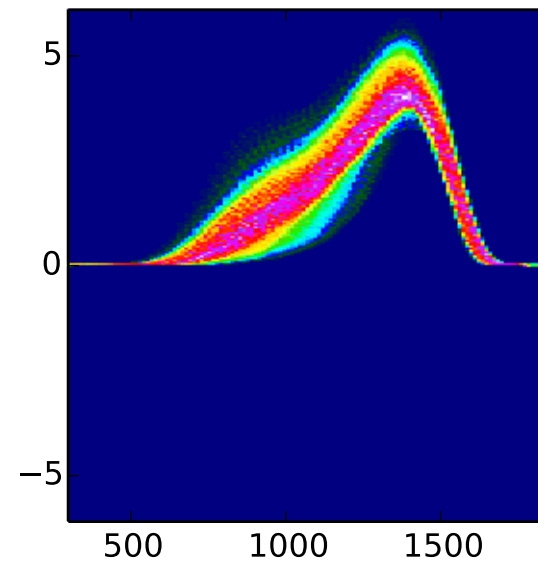
Curvature: -2000 : -1200



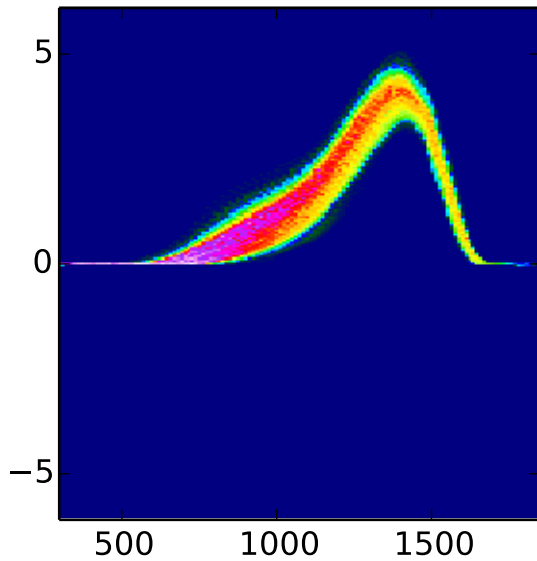
Curvature: -1200 : -400



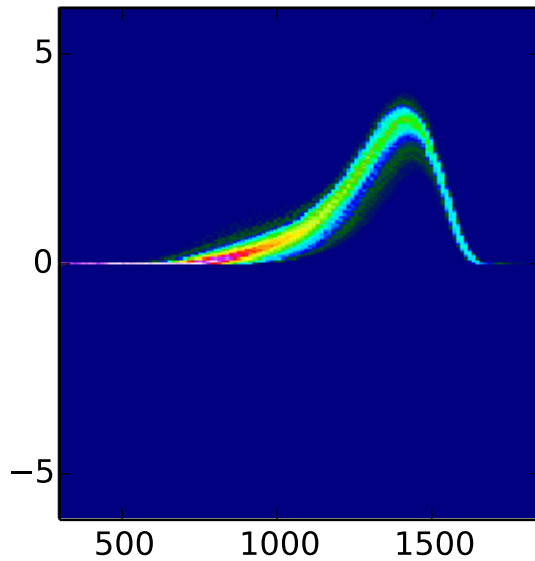
Curvature: -400 : 400



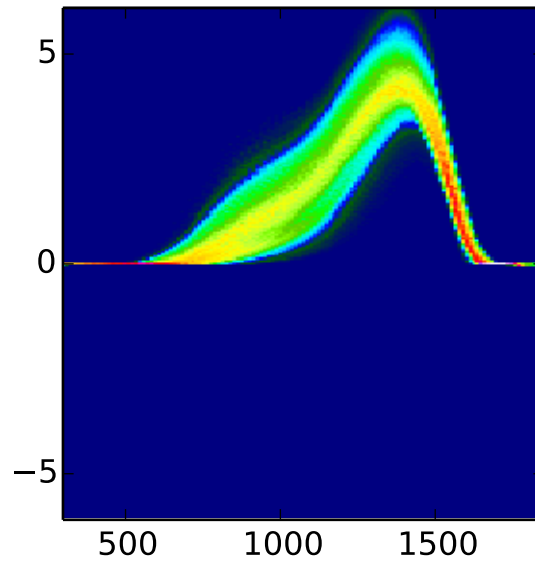
Curvature: 400 : 1200



Curvature: 1200 : 2000

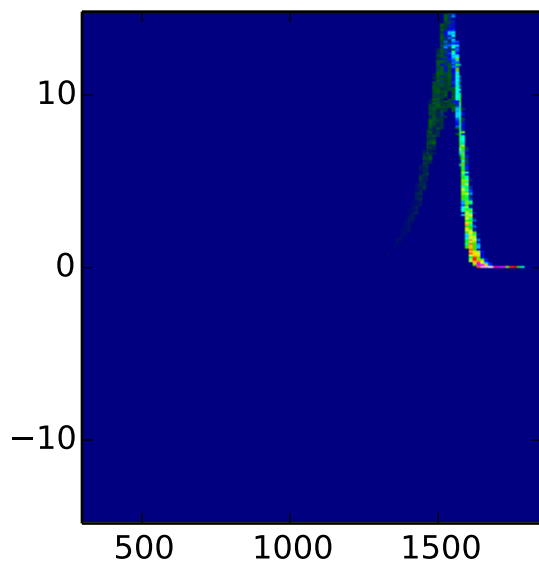


Sum

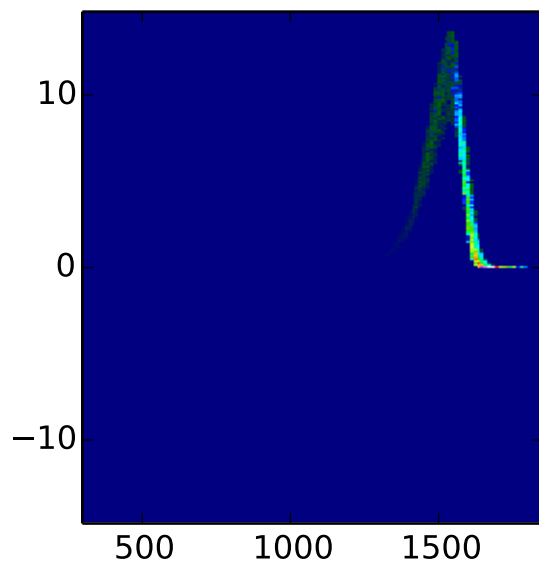


# Edge HCCO $\rightleftharpoons$ CH<sub>2</sub>(S)

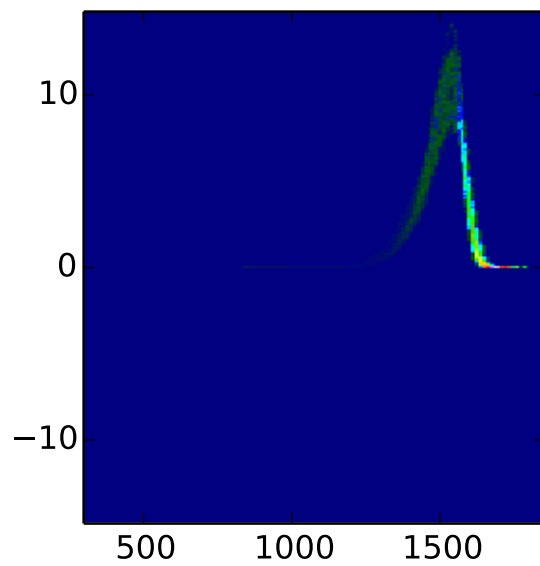
Curvature: -6000 : -5200



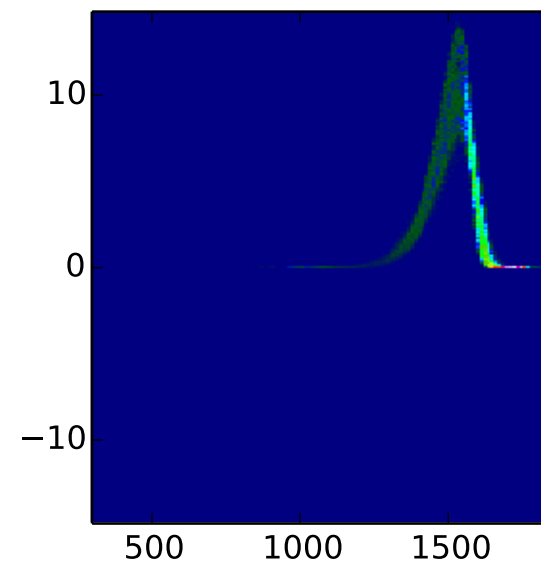
Curvature: -5200 : -4400



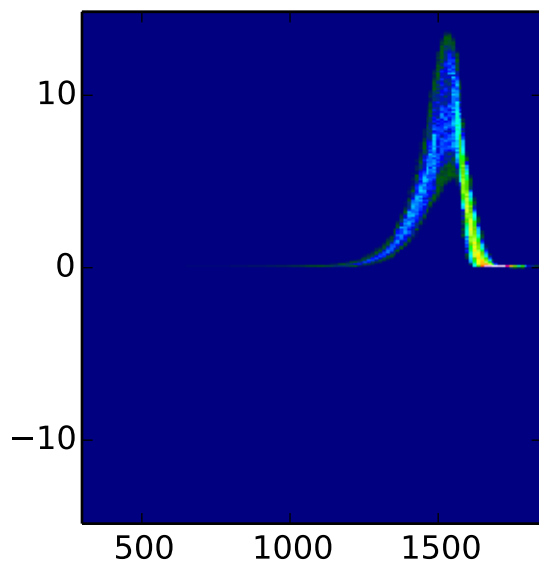
Curvature: -4400 : -3600



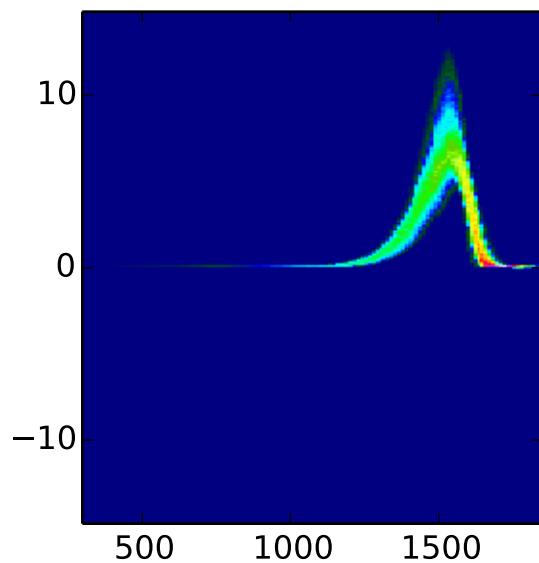
Curvature: -3600 : -2800



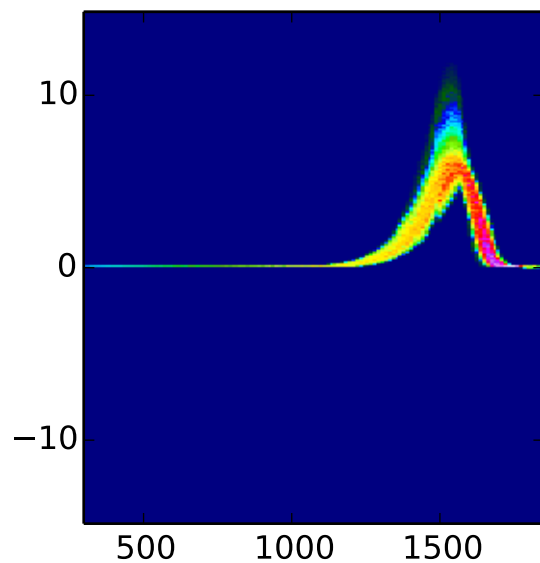
Curvature: -2800 : -2000



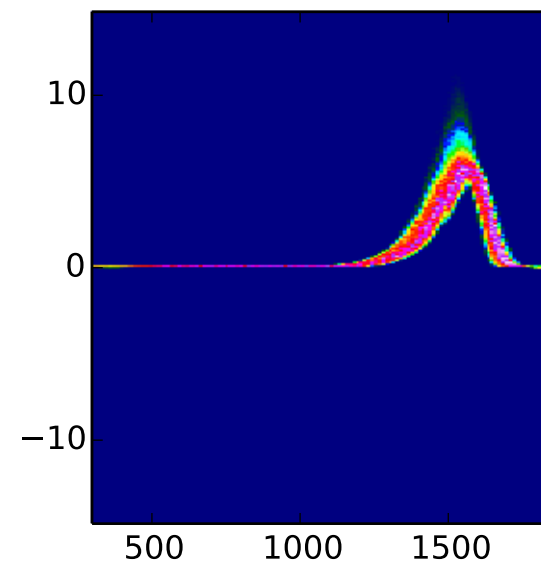
Curvature: -2000 : -1200



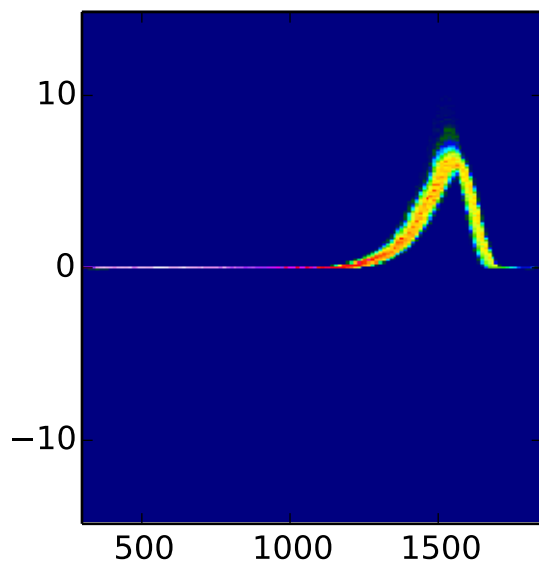
Curvature: -1200 : -400



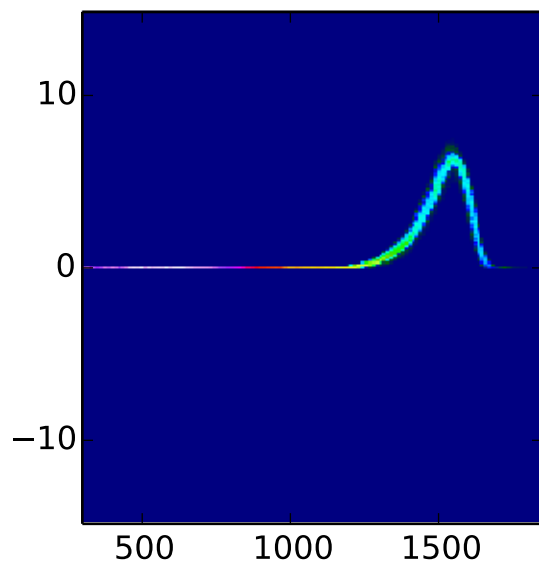
Curvature: -400 : 400



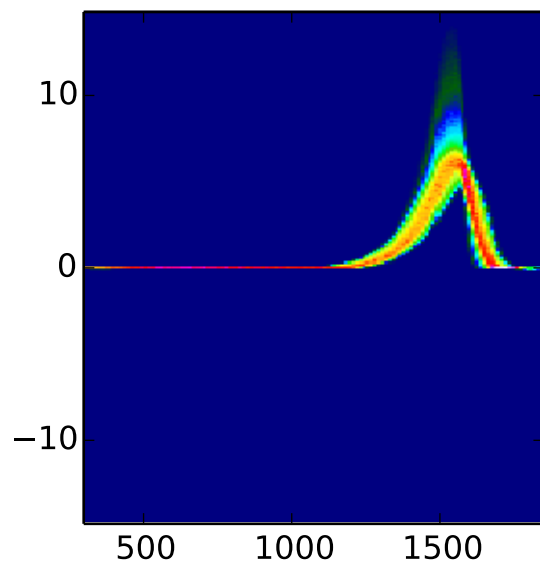
Curvature: 400 : 1200



Curvature: 1200 : 2000



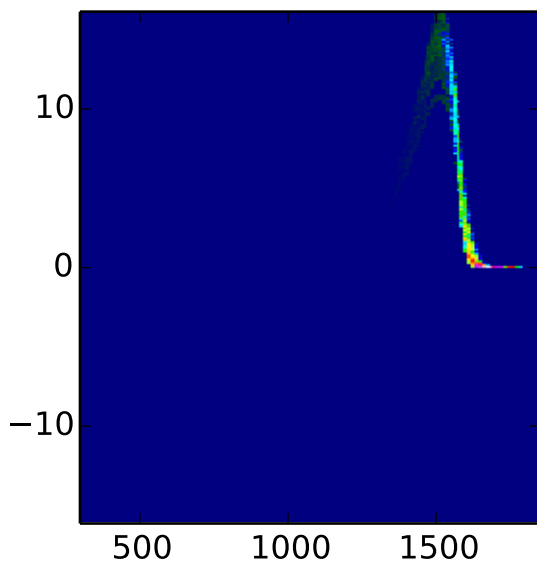
Sum



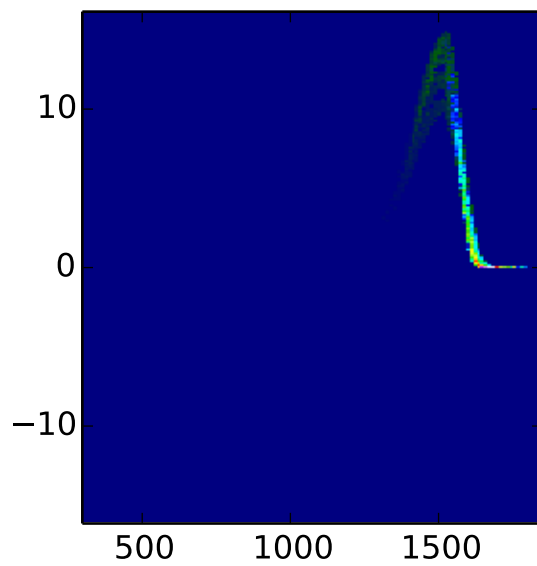


# Edge CH<sub>2</sub>CO $\rightleftharpoons$ CH<sub>3</sub>

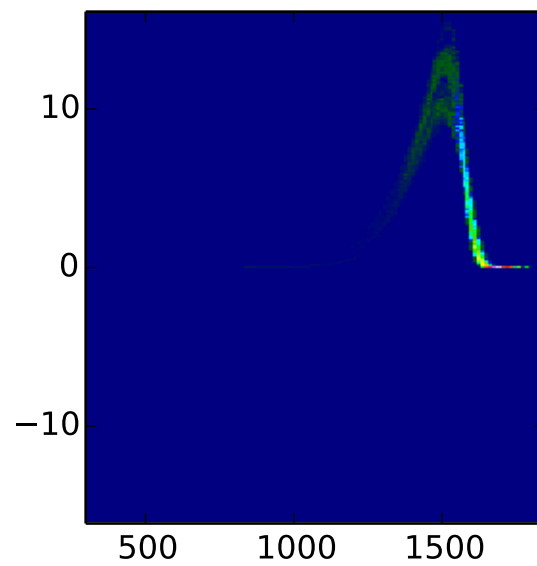
Curvature: -6000 : -5200



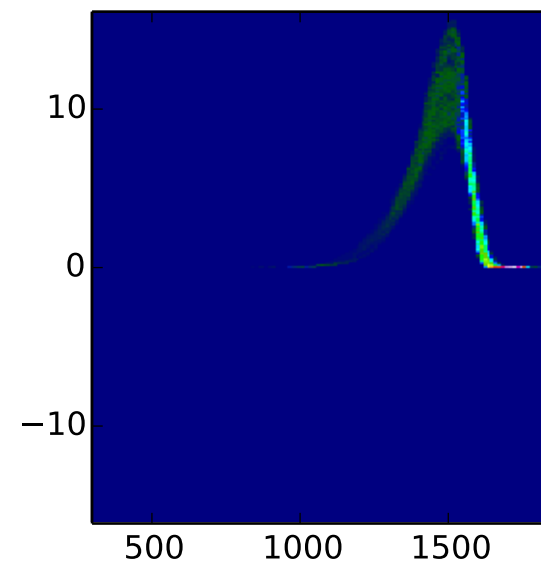
Curvature: -5200 : -4400



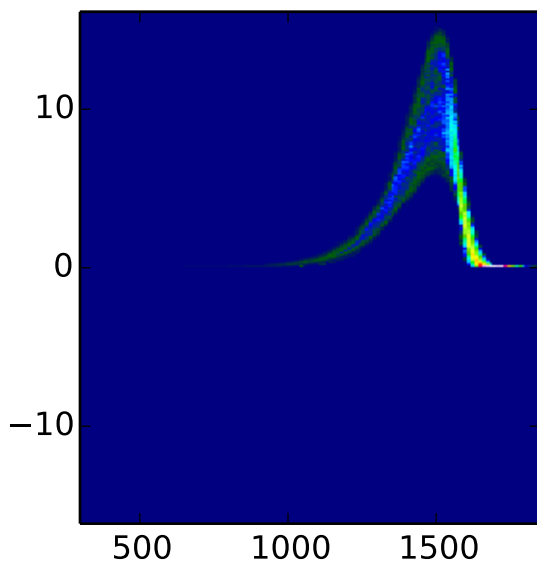
Curvature: -4400 : -3600



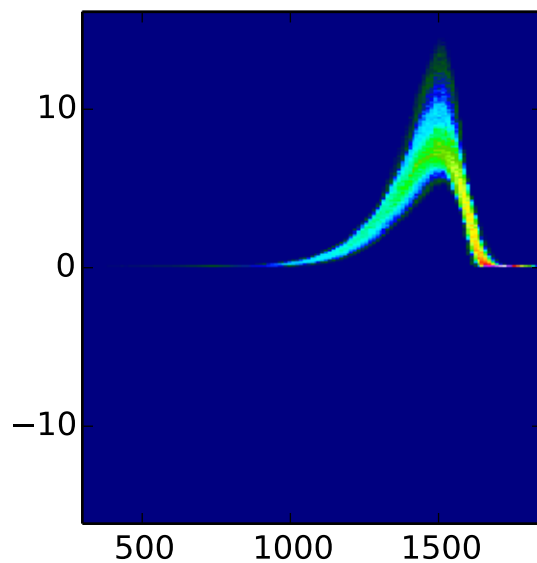
Curvature: -3600 : -2800



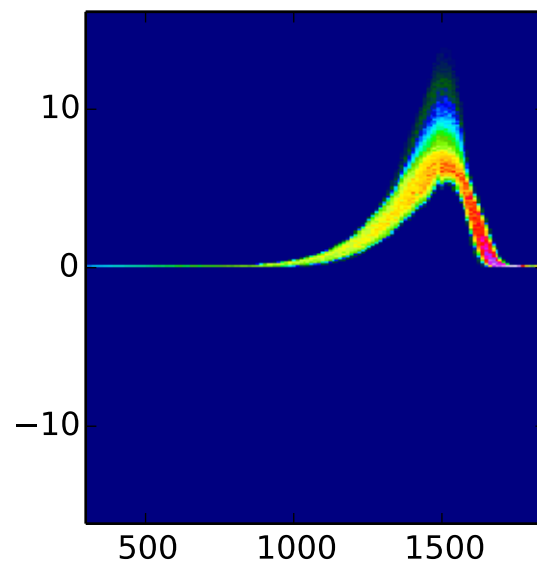
Curvature: -2800 : -2000



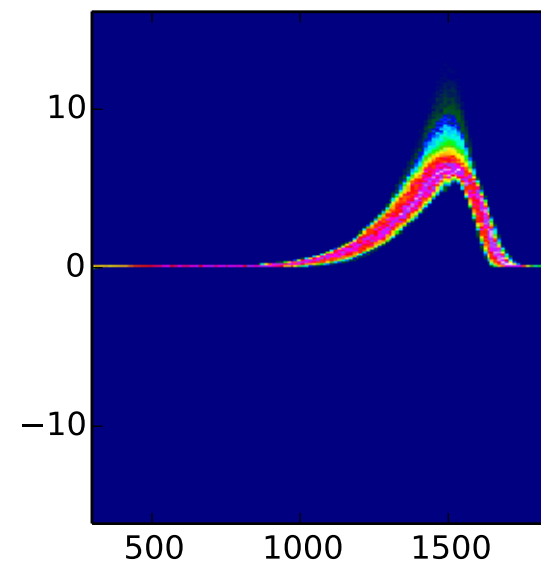
Curvature: -2000 : -1200



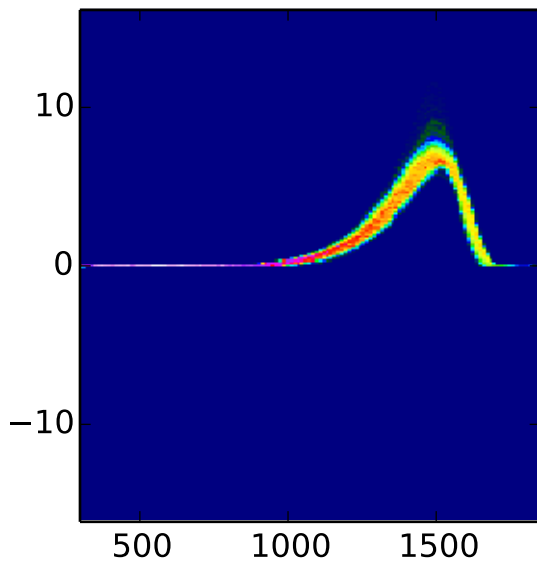
Curvature: -1200 : -400



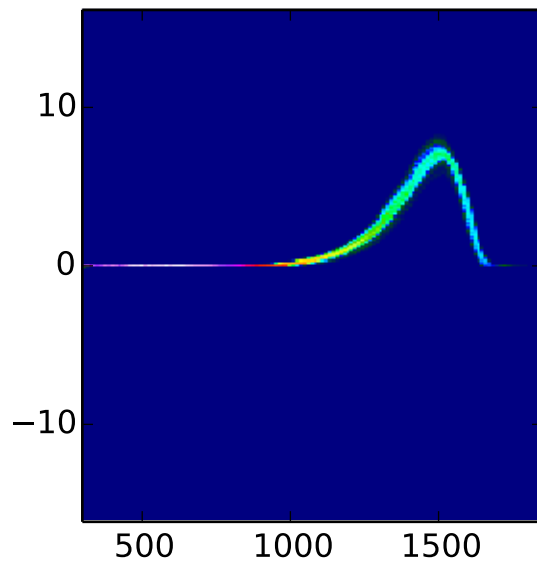
Curvature: -400 : 400



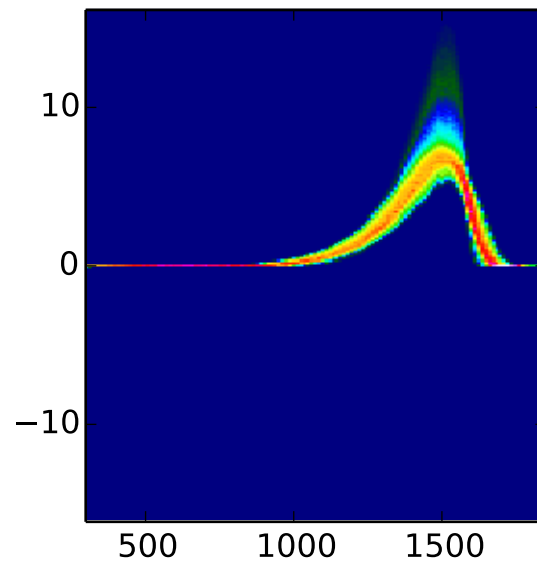
Curvature: 400 : 1200



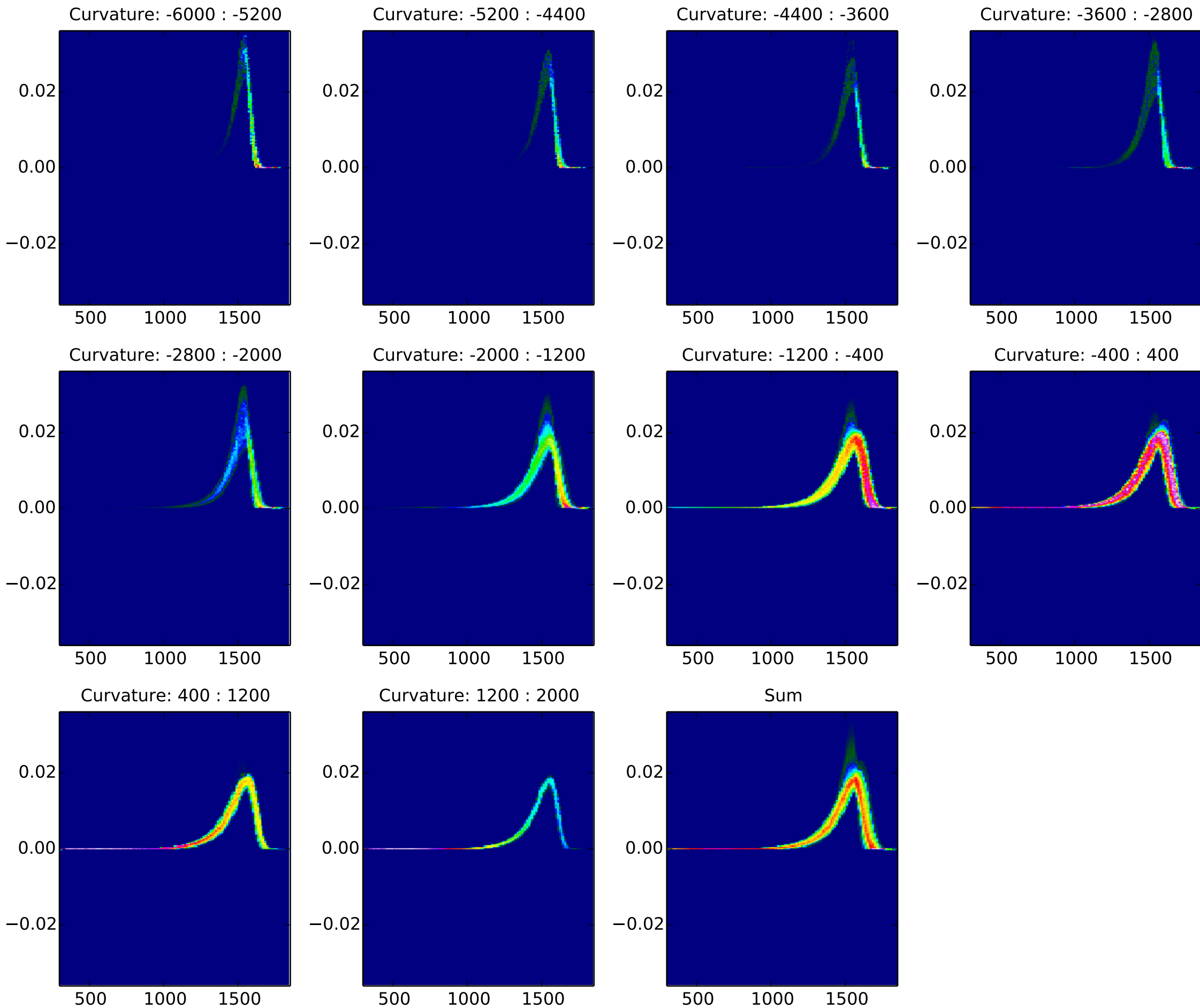
Curvature: 1200 : 2000



Sum



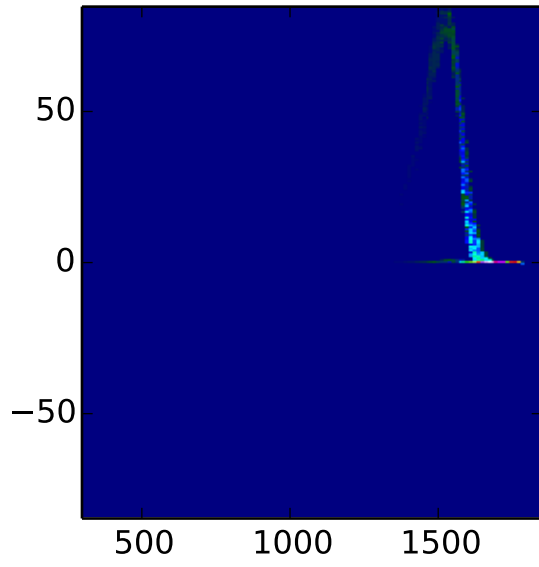
# Edge HCCOH $\rightleftharpoons$ CH<sub>2</sub>CO



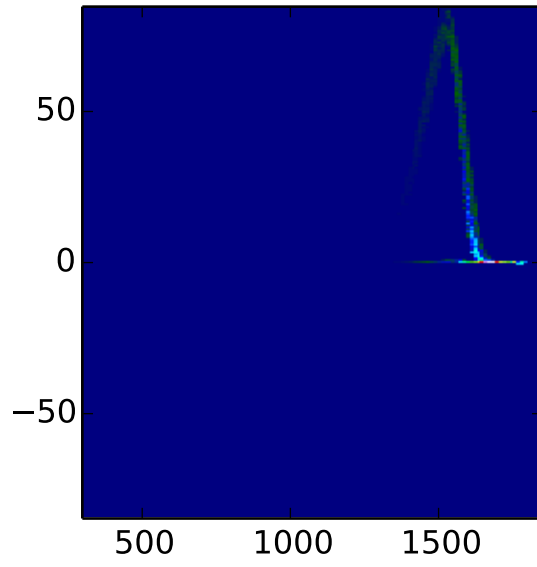


# Edge CH $\rightleftharpoons$ HCO

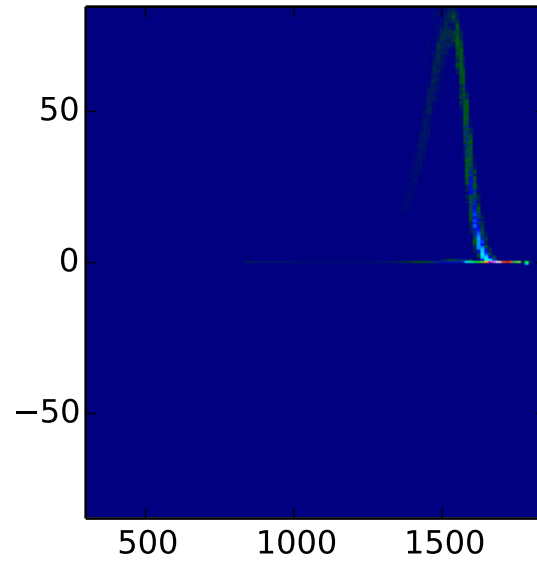
Curvature: -6000 : -5200



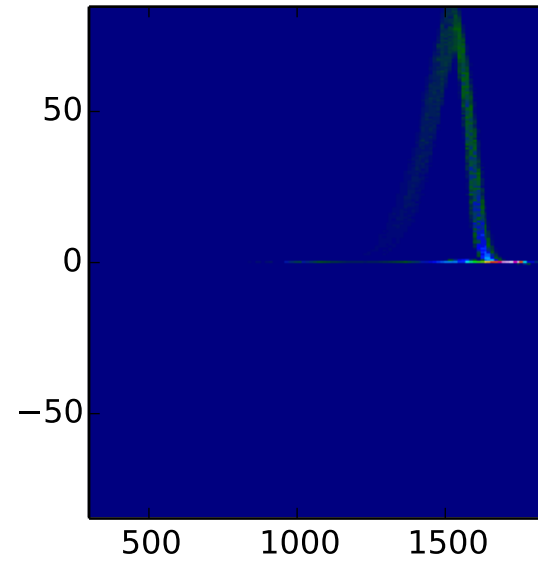
Curvature: -5200 : -4400



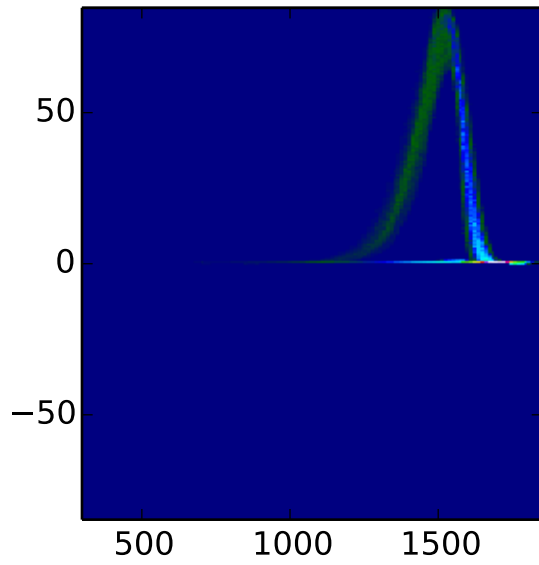
Curvature: -4400 : -3600



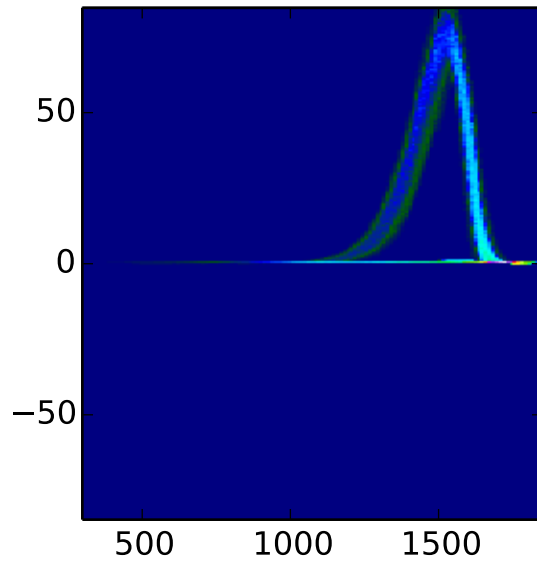
Curvature: -3600 : -2800



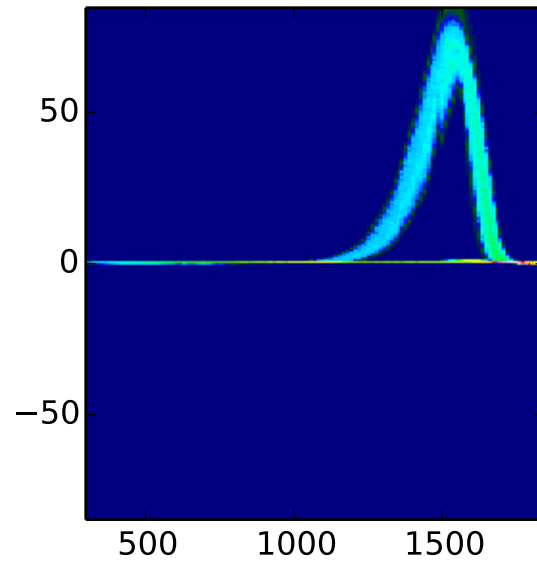
Curvature: -2800 : -2000



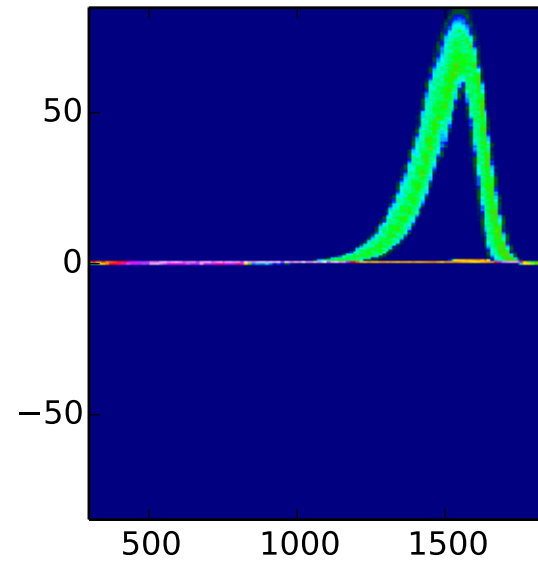
Curvature: -2000 : -1200



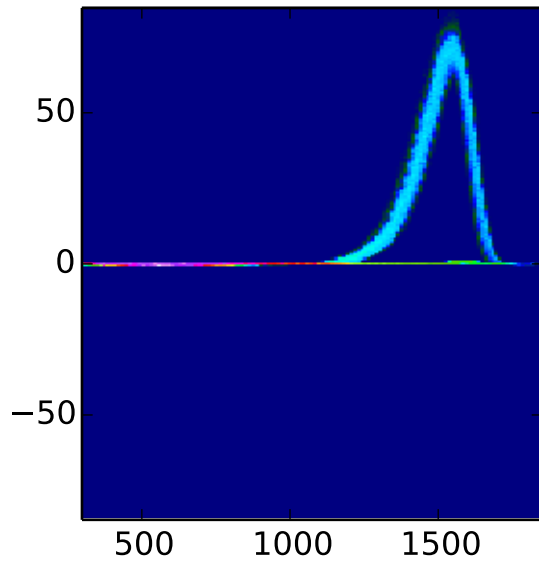
Curvature: -1200 : -400



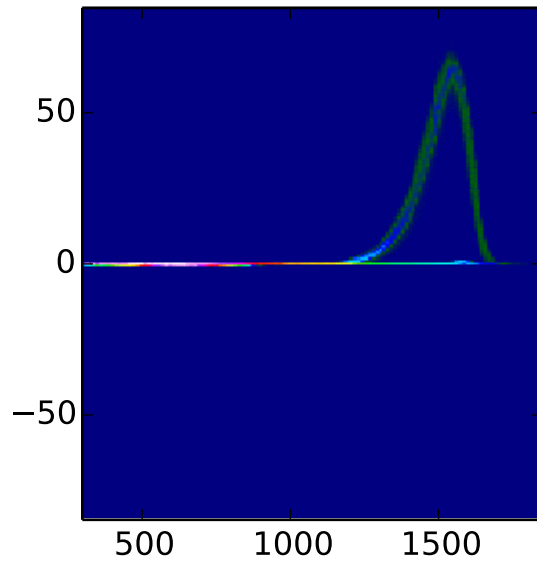
Curvature: -400 : 400



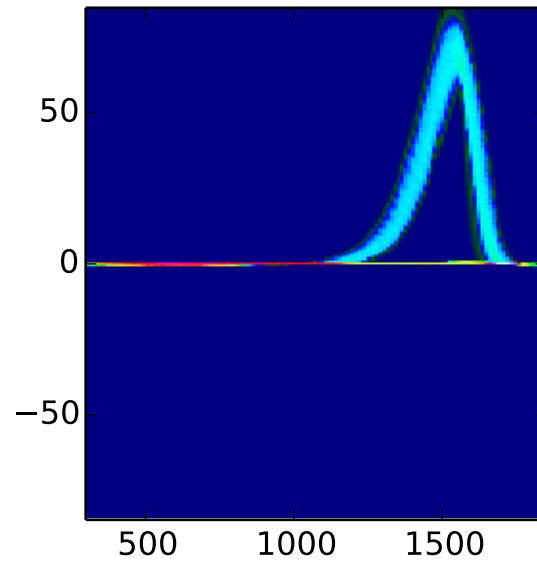
Curvature: 400 : 1200



Curvature: 1200 : 2000

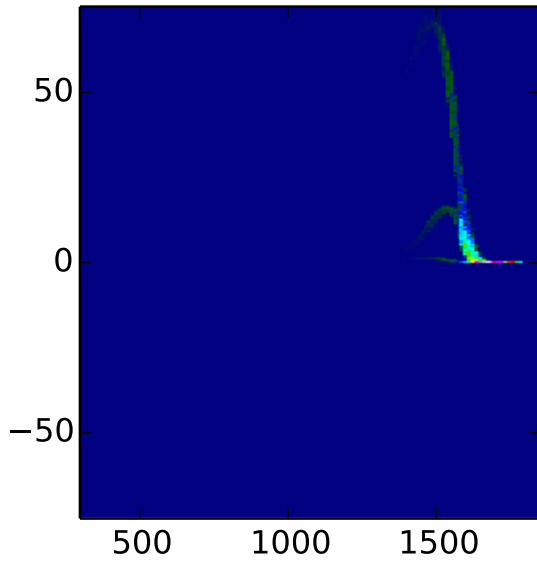


Sum

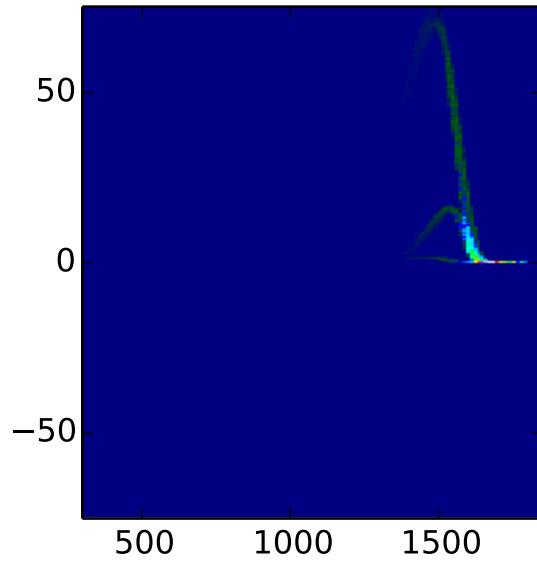


# Edge CH2 $\rightleftharpoons$ CH2O

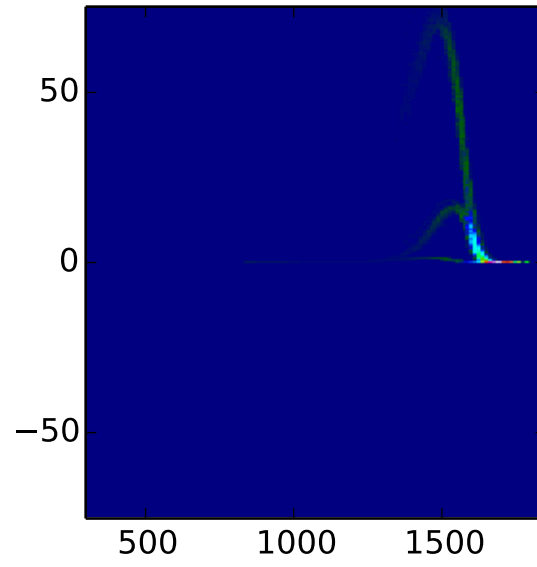
Curvature: -6000 : -5200



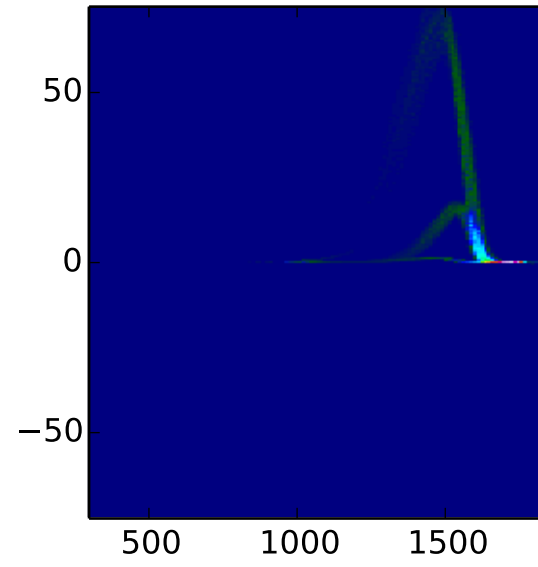
Curvature: -5200 : -4400



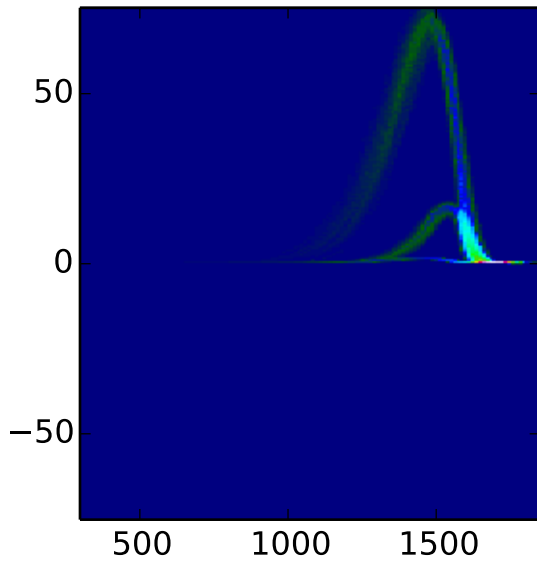
Curvature: -4400 : -3600



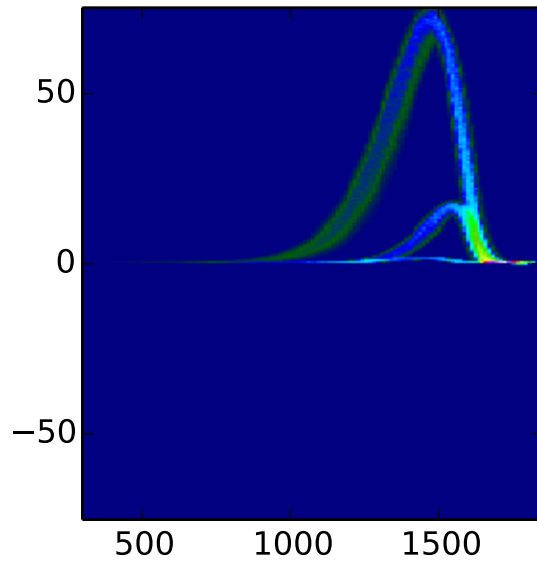
Curvature: -3600 : -2800



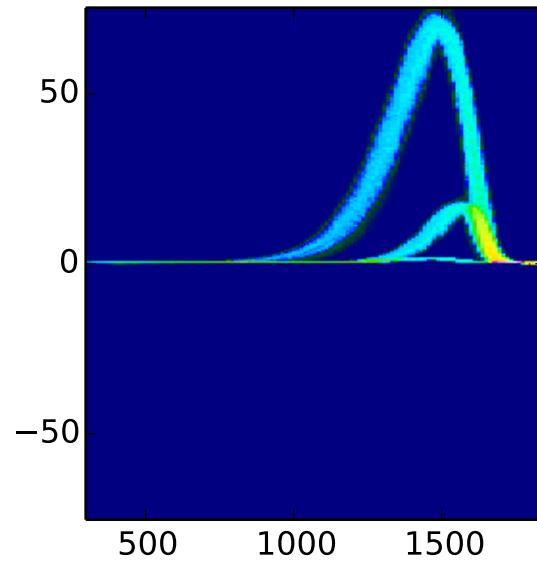
Curvature: -2800 : -2000



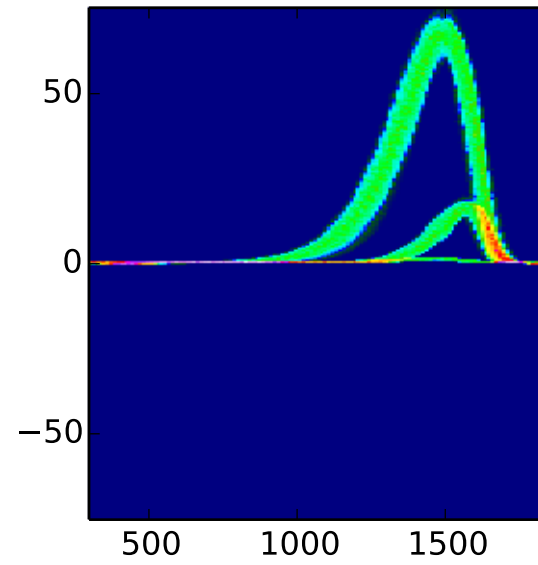
Curvature: -2000 : -1200



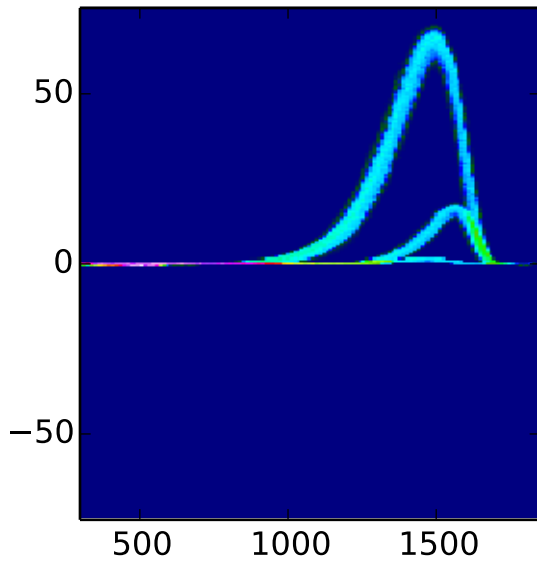
Curvature: -1200 : -400



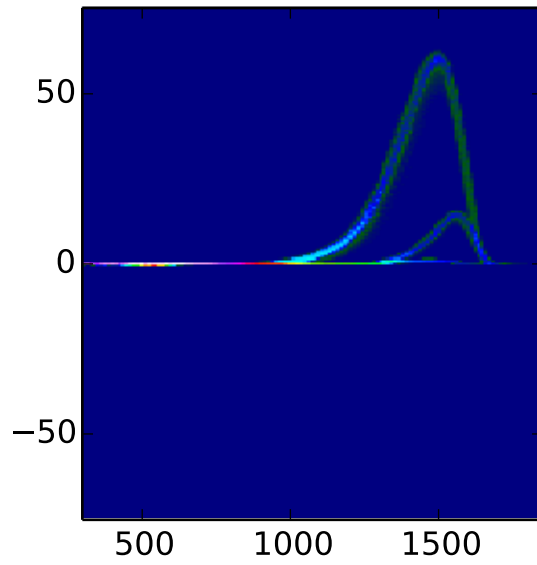
Curvature: -400 : 400



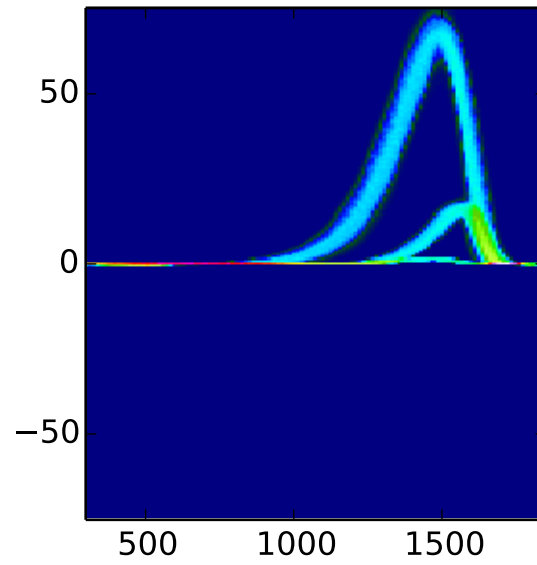
Curvature: 400 : 1200



Curvature: 1200 : 2000



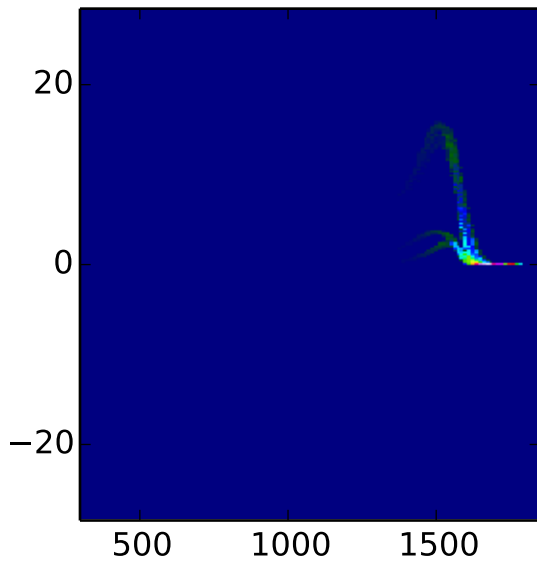
Sum



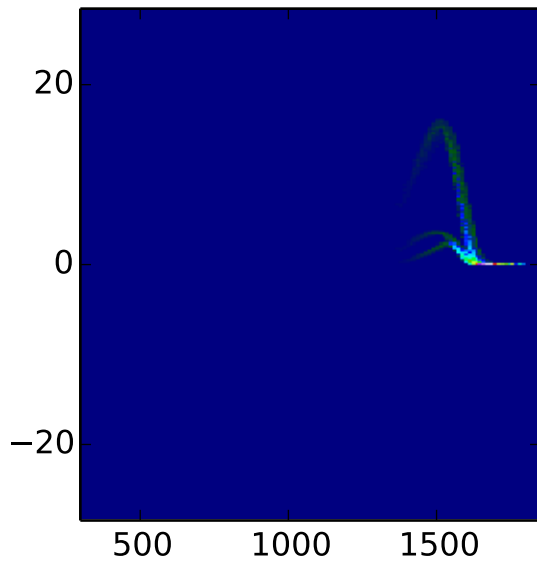


# Edge CH<sub>2</sub>(S) $\rightleftharpoons$ CH<sub>2</sub>O

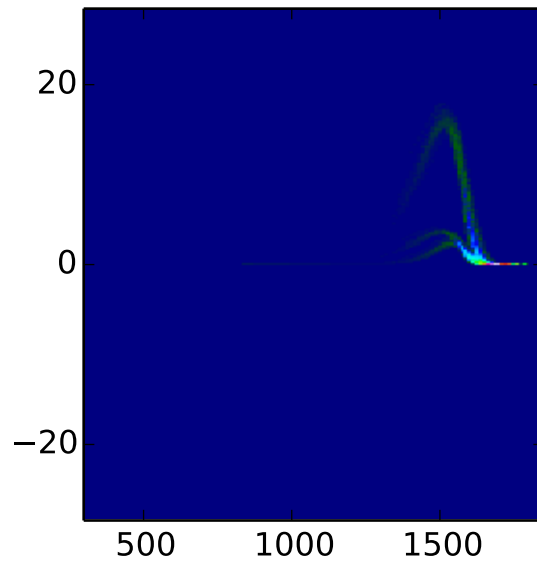
Curvature: -6000 : -5200



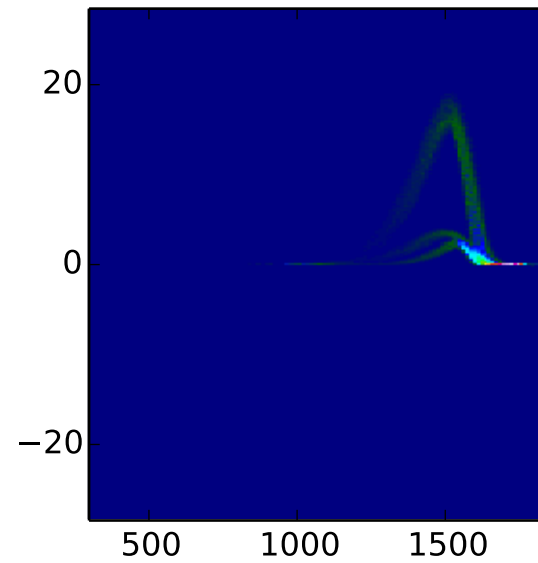
Curvature: -5200 : -4400



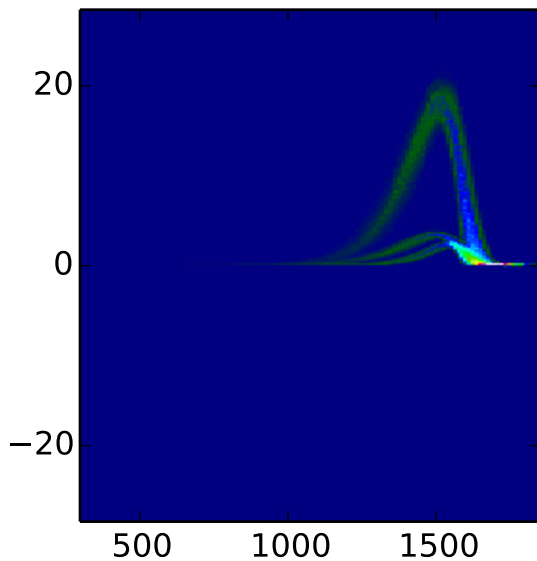
Curvature: -4400 : -3600



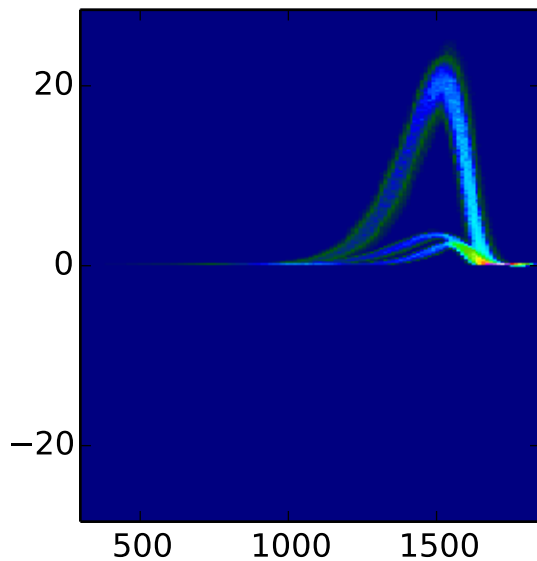
Curvature: -3600 : -2800



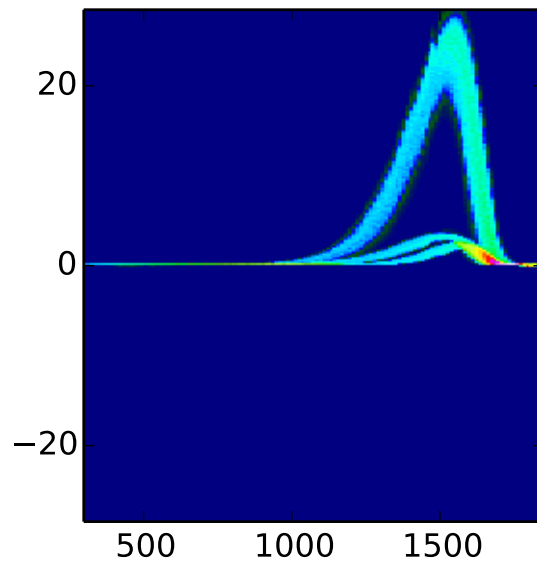
Curvature: -2800 : -2000



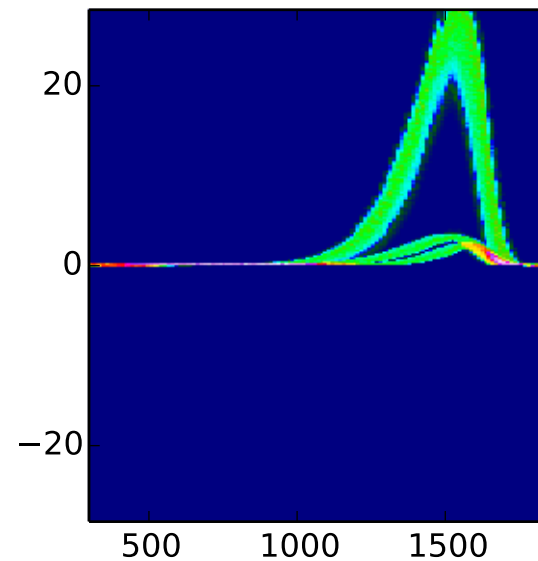
Curvature: -2000 : -1200



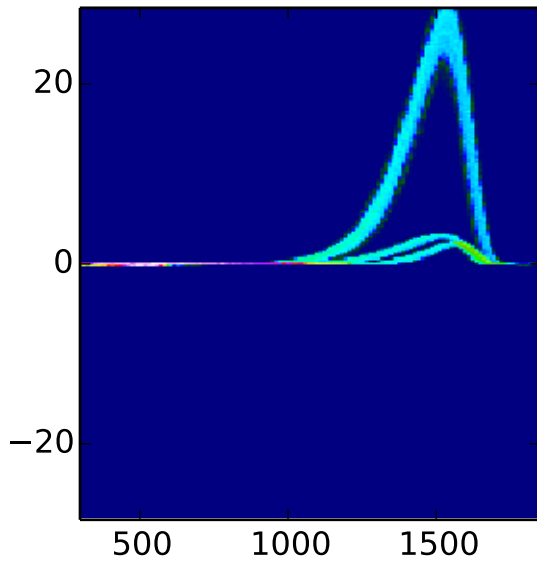
Curvature: -1200 : -400



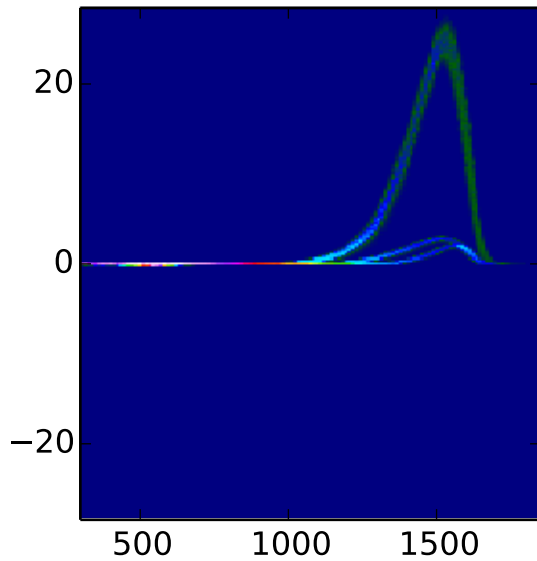
Curvature: -400 : 400



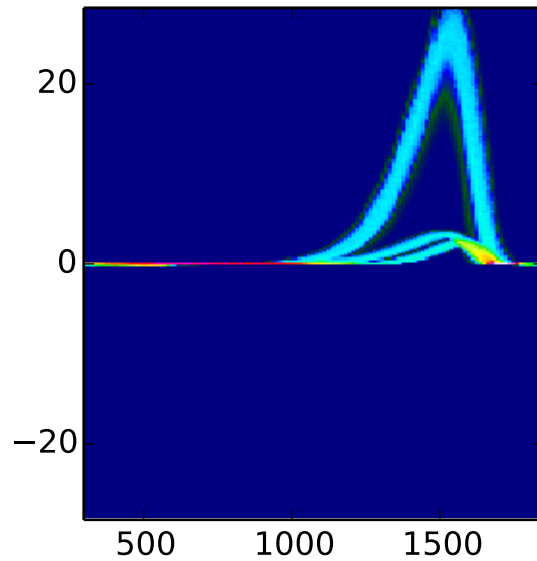
Curvature: 400 : 1200



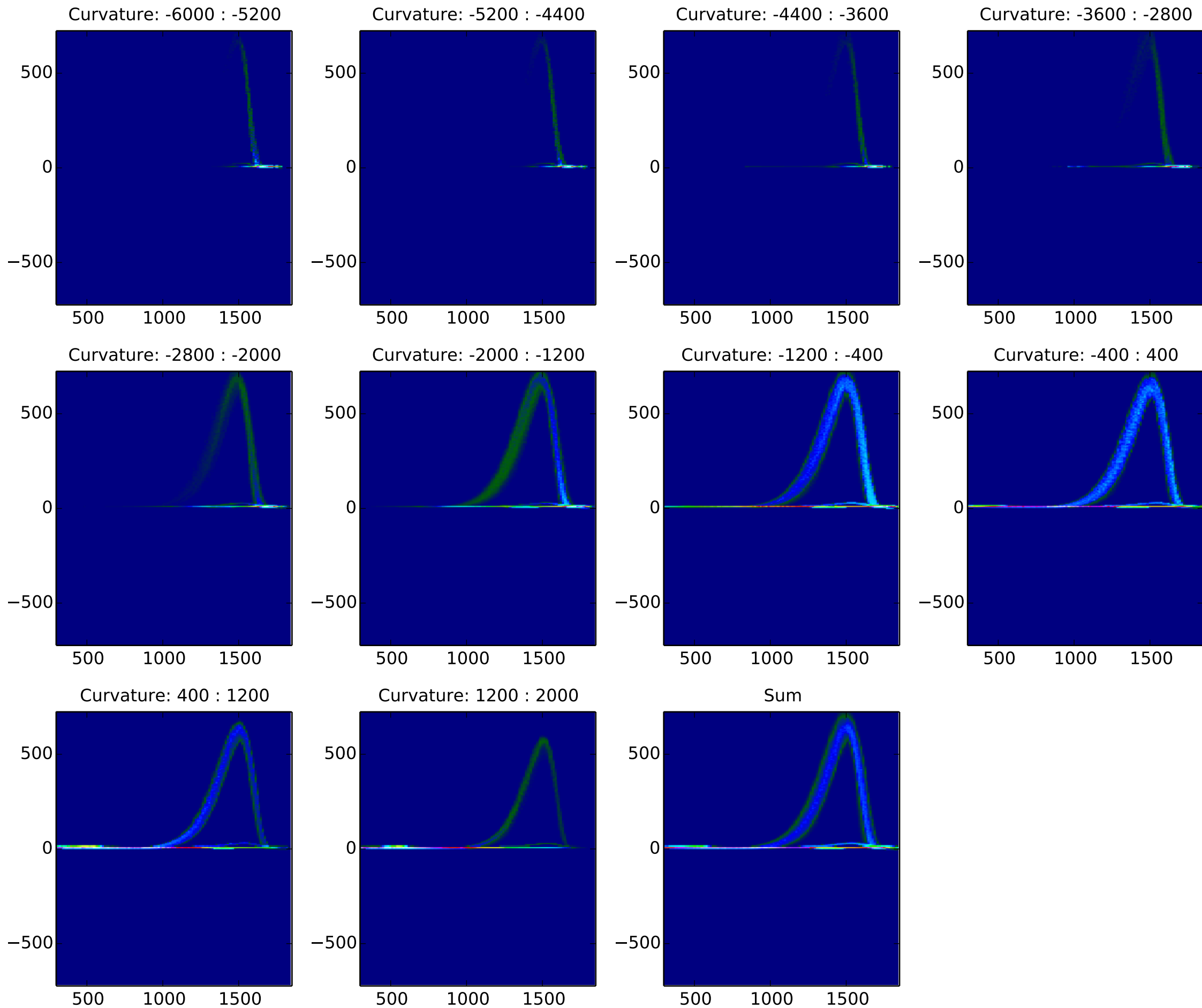
Curvature: 1200 : 2000



Sum

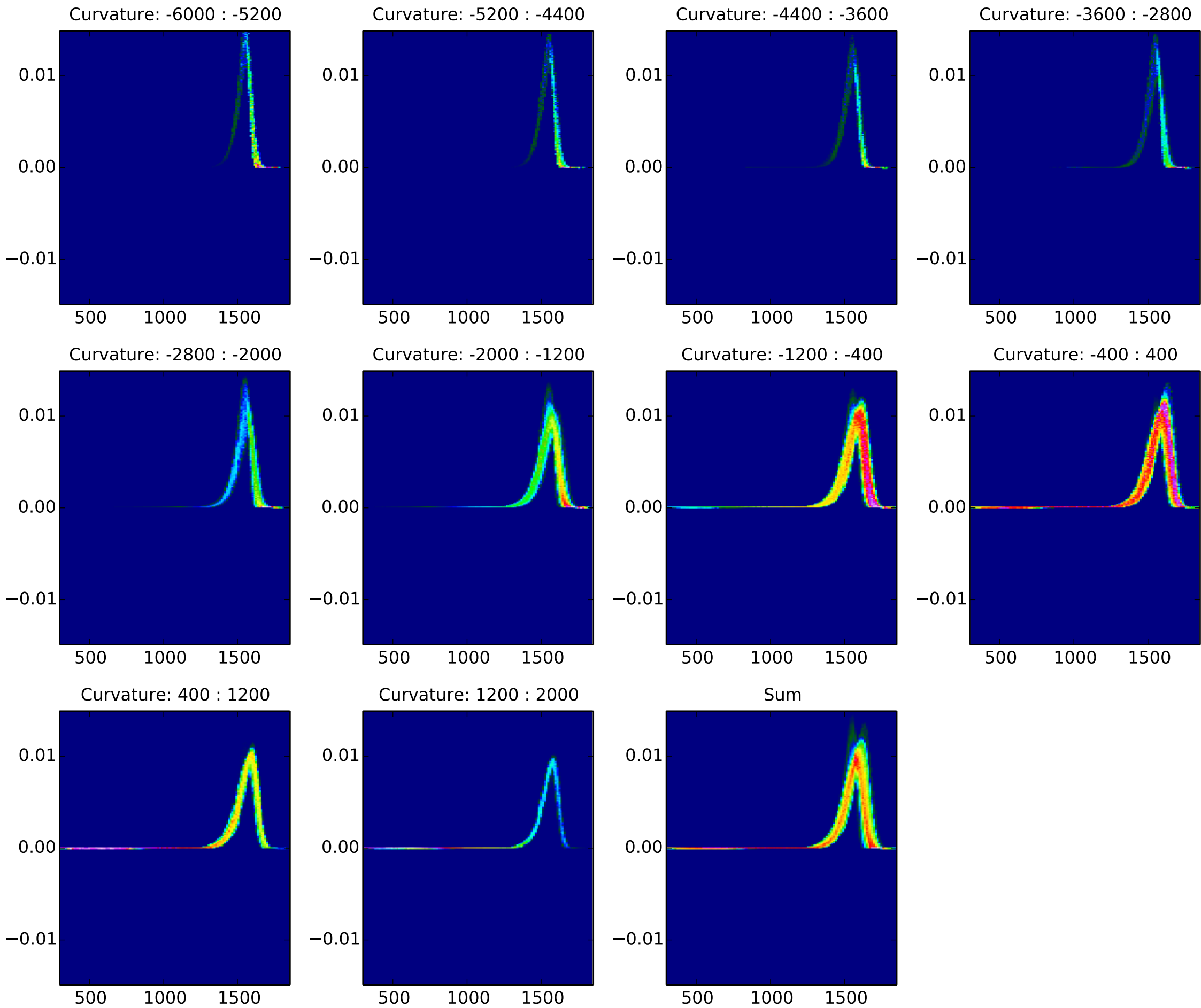


# Edge CH3 $\rightleftharpoons$ CH2(S)

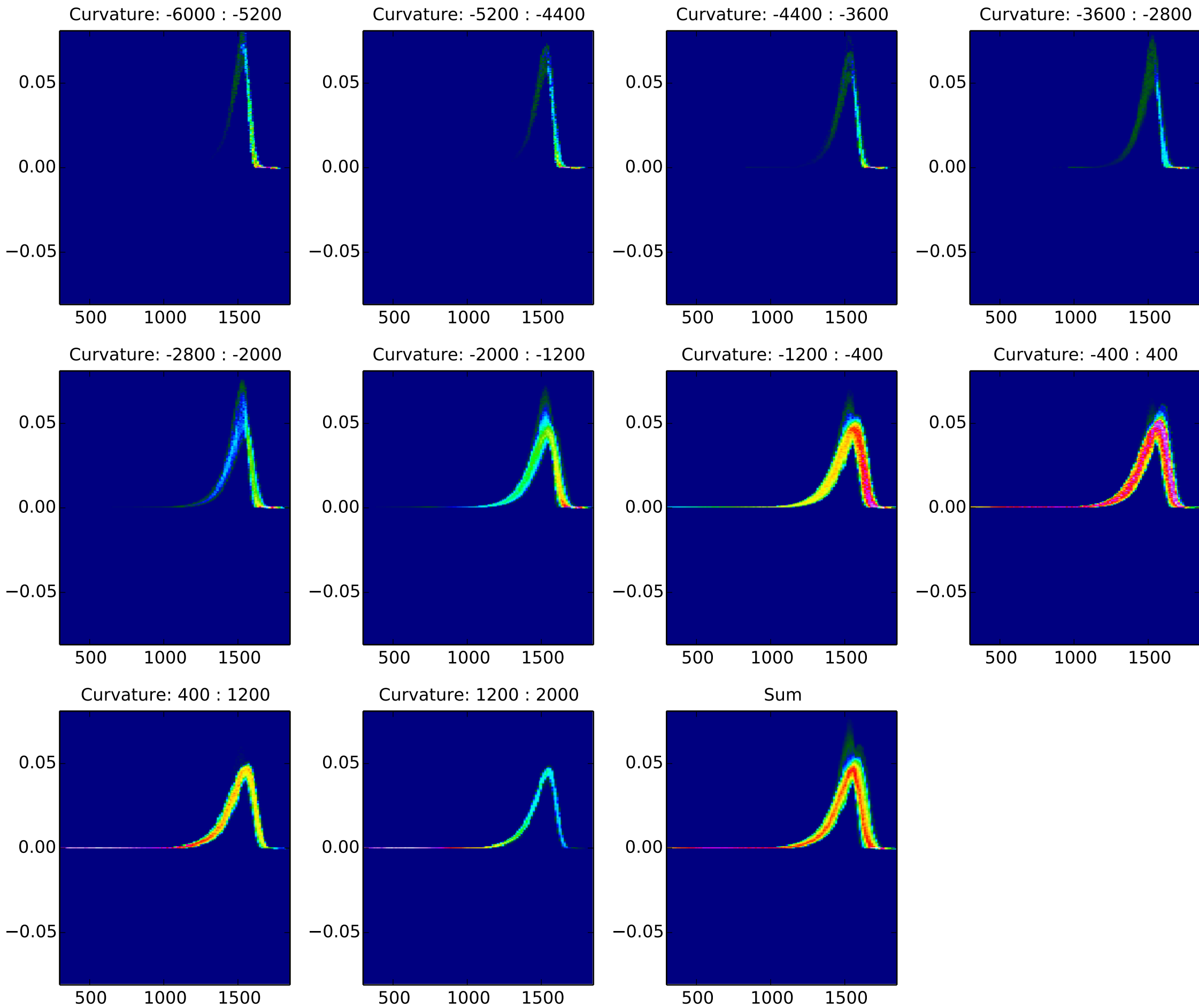




# Edge C2H $\rightleftharpoons$ HCCO

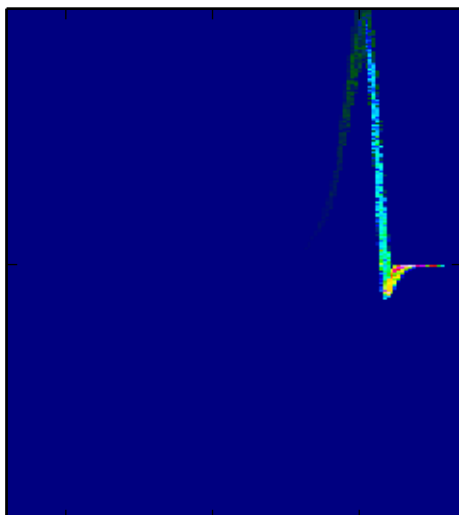


# Edge C2H2 $\rightleftharpoons$ CH2CO

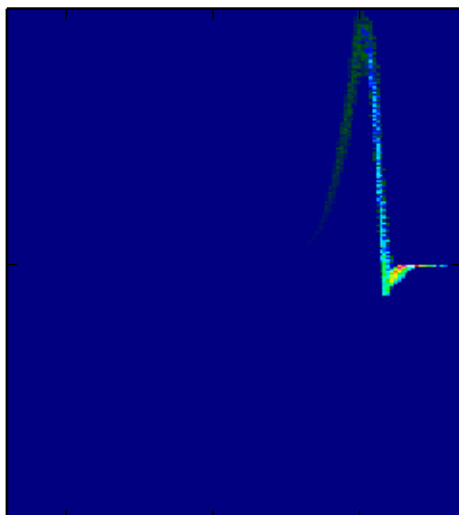


# Edge C2H2 $\rightleftharpoons$ HCCOH

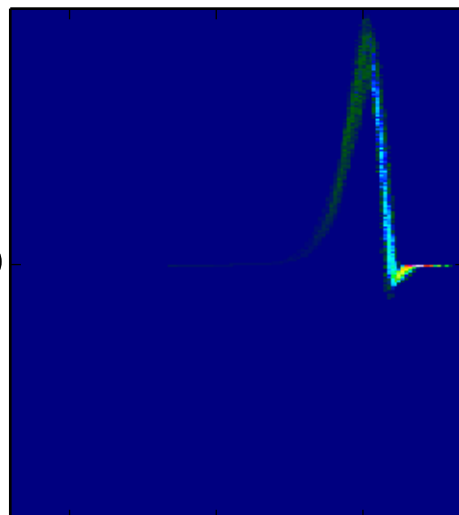
Curvature: -6000 : -5200



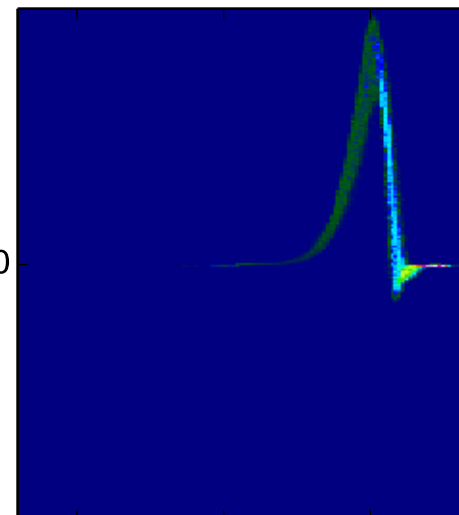
Curvature: -5200 : -4400



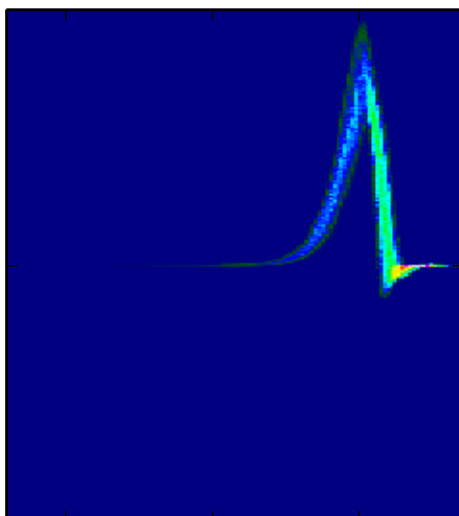
Curvature: -4400 : -3600



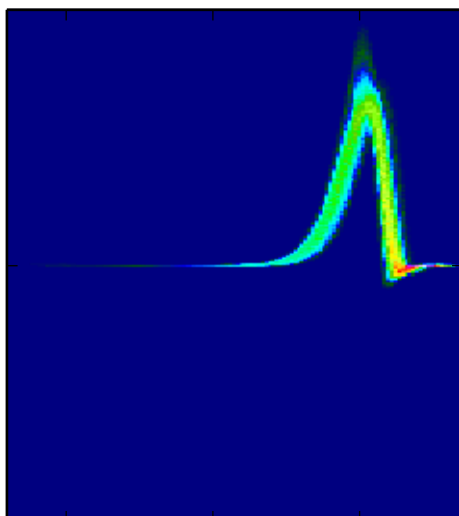
Curvature: -3600 : -2800



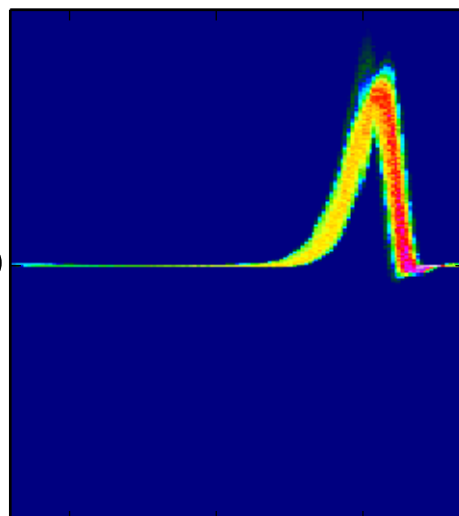
Curvature: -2800 : -2000



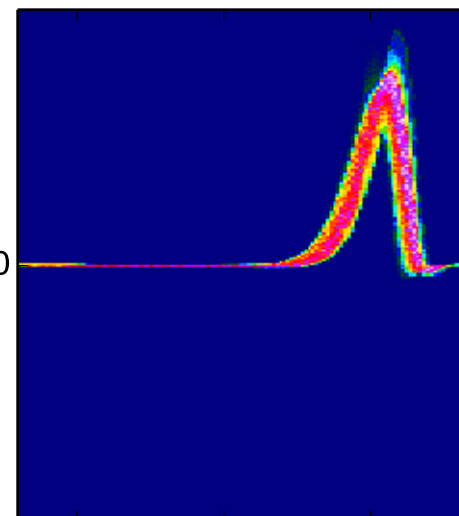
Curvature: -2000 : -1200



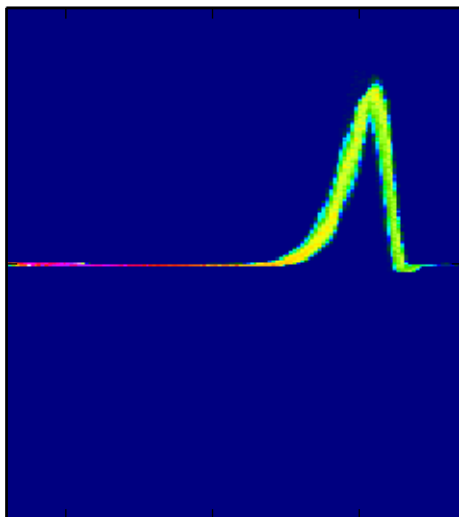
Curvature: -1200 : -400



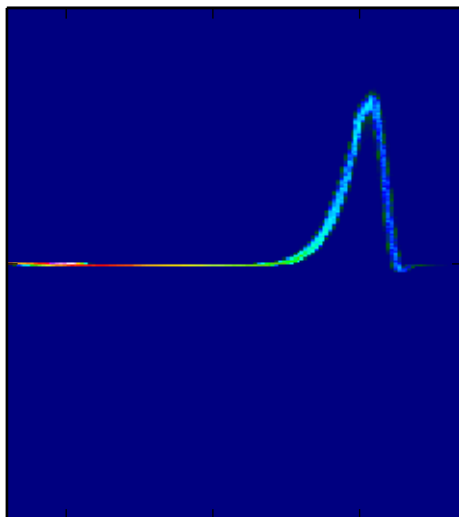
Curvature: -400 : 400



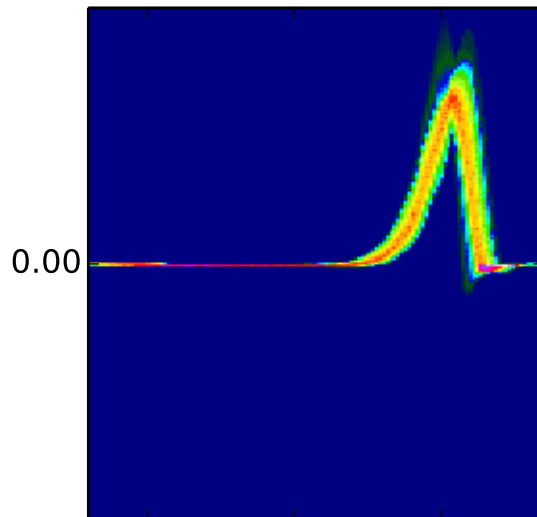
Curvature: 400 : 1200



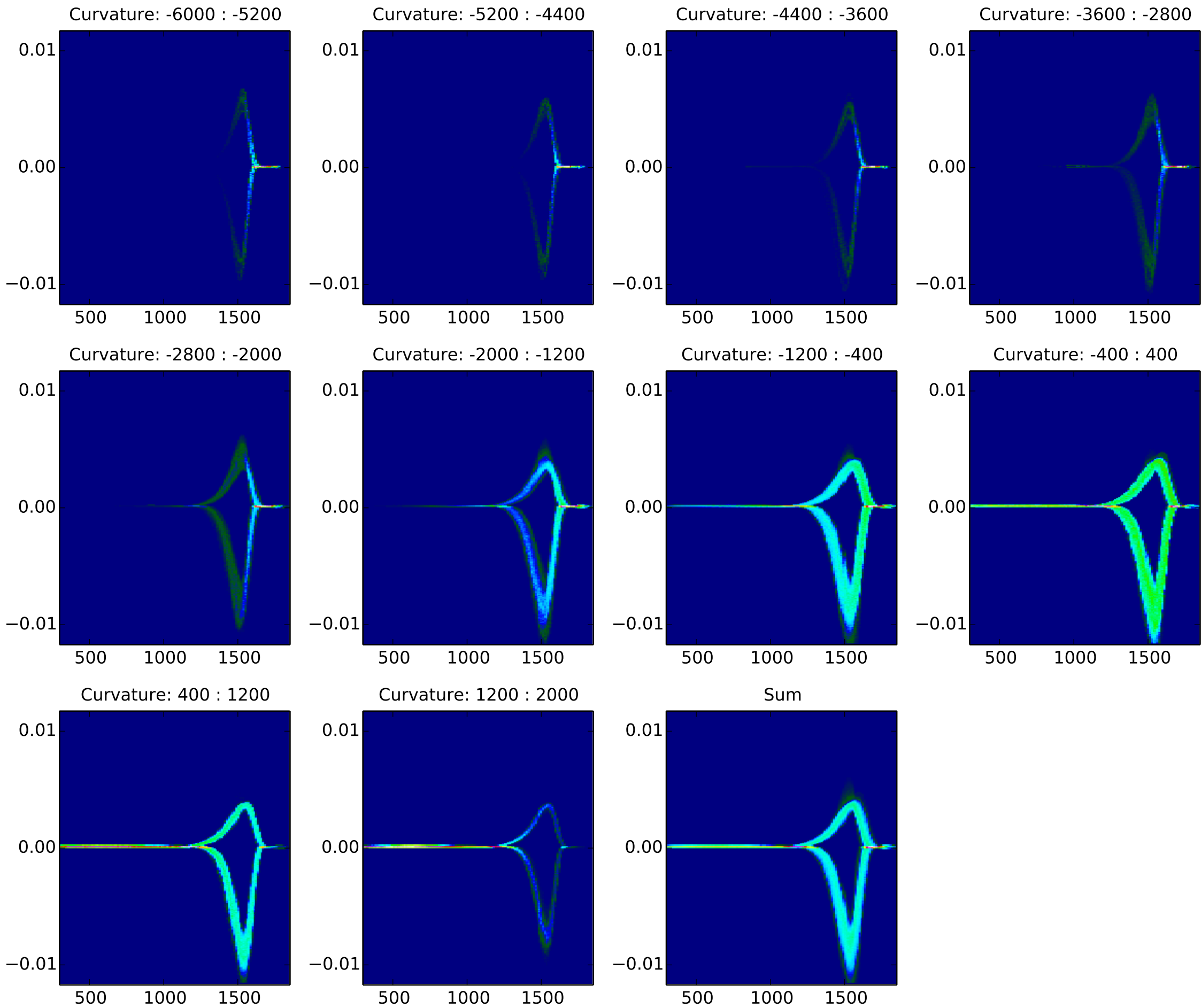
Curvature: 1200 : 2000



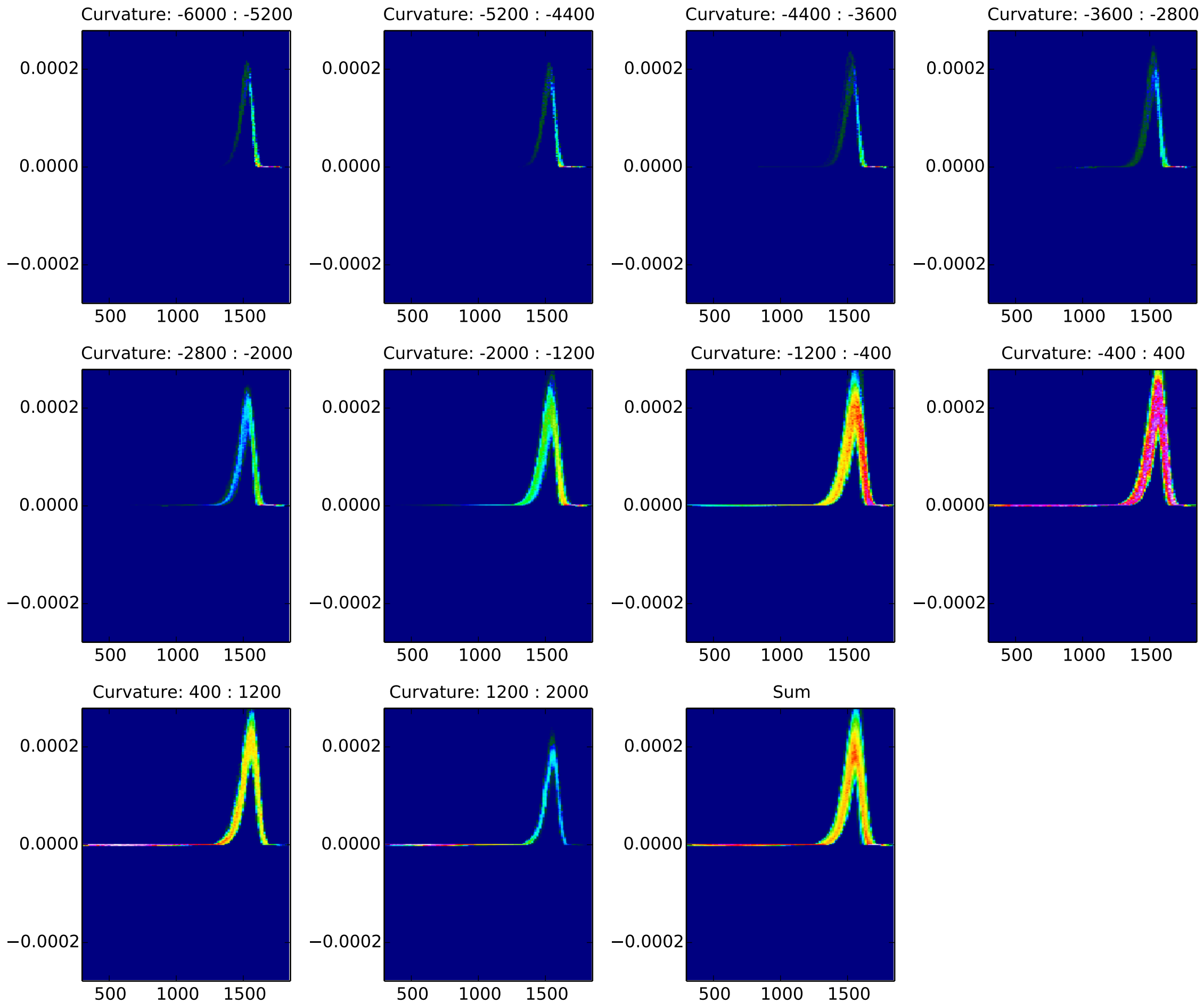
Sum



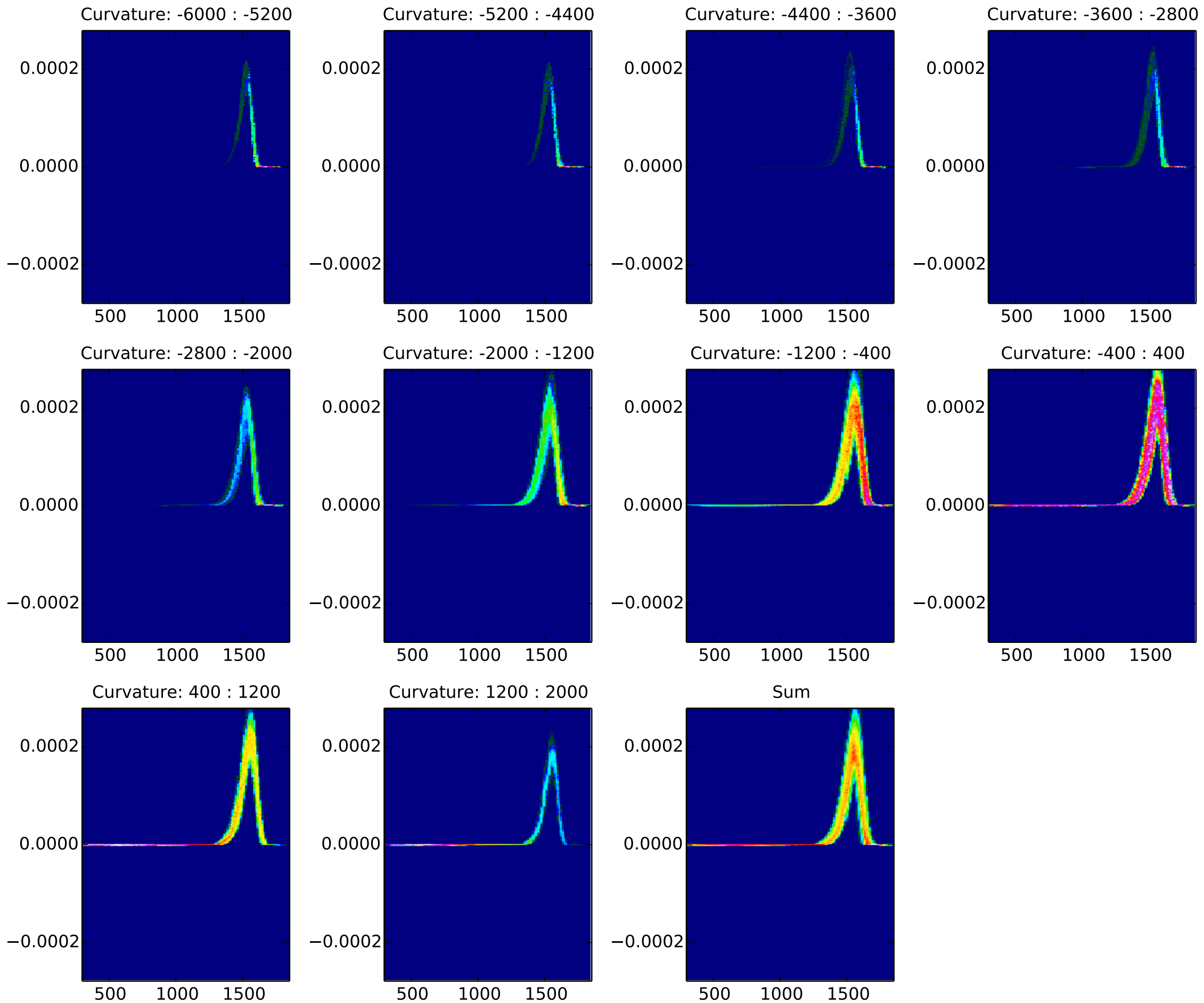
# Edge C2H2 $\rightleftharpoons$ CH3



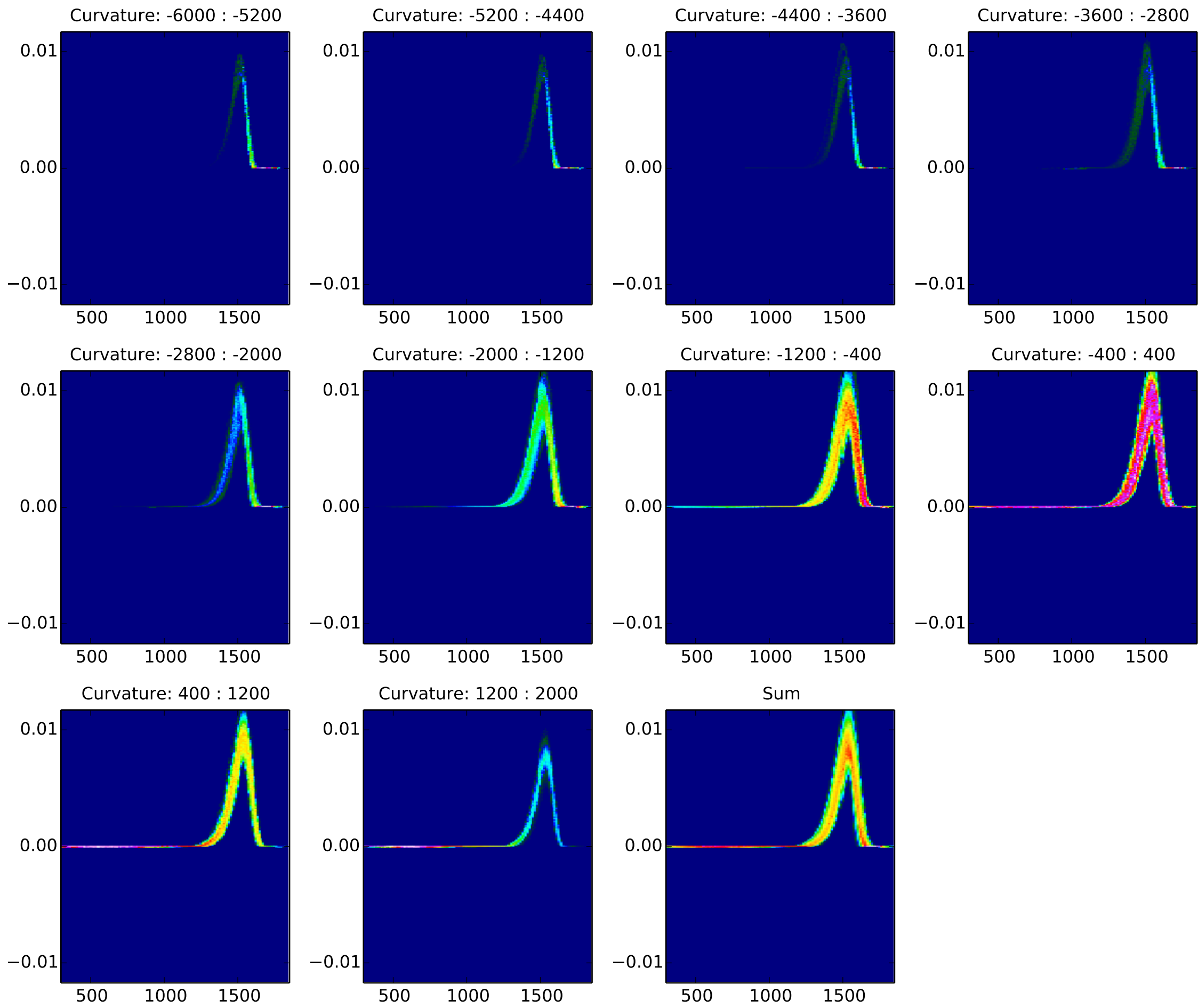
# Edge C $\Leftrightarrow$ C2H



# Edge CH2 $\rightleftharpoons$ C2H

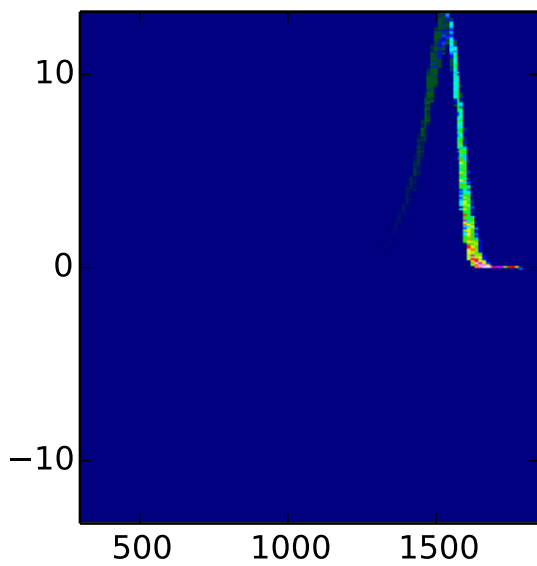


# Edge C $\rightleftharpoons$ C2H2

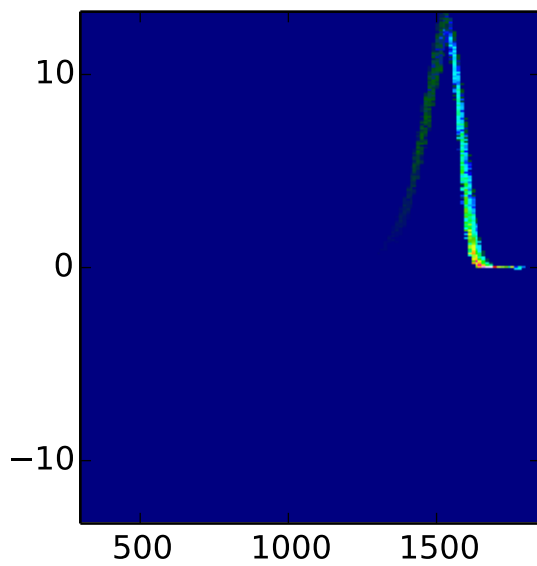


# Edge CH $\rightleftharpoons$ CH<sub>2</sub>O

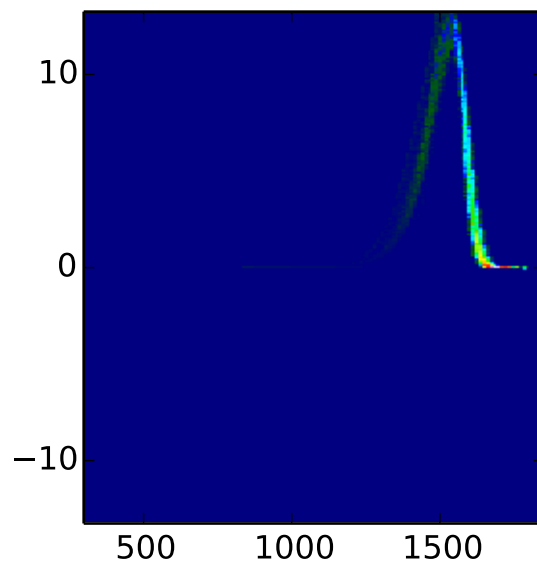
Curvature: -6000 : -5200



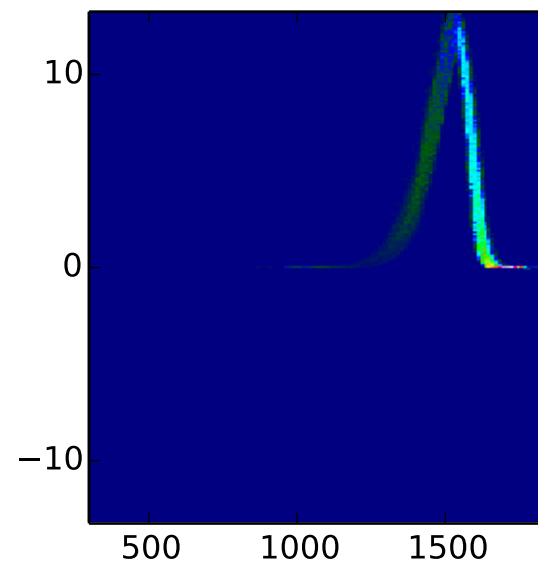
Curvature: -5200 : -4400



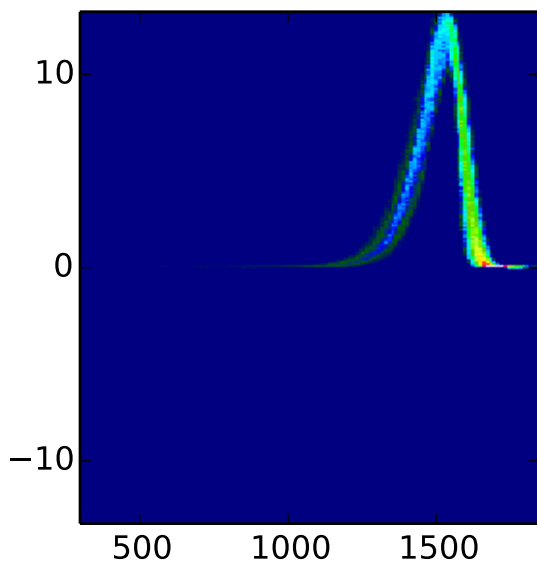
Curvature: -4400 : -3600



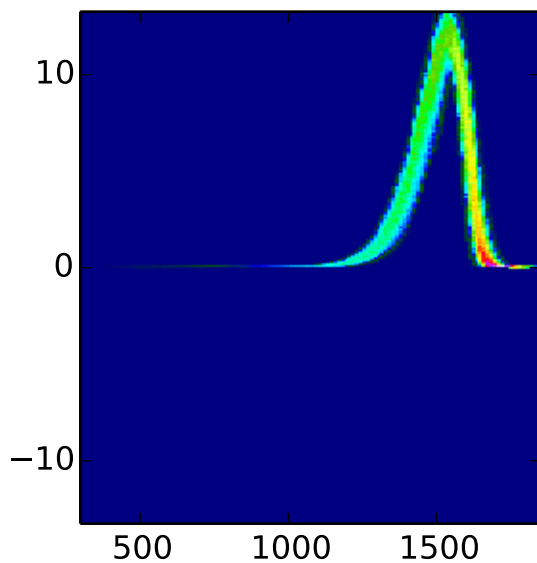
Curvature: -3600 : -2800



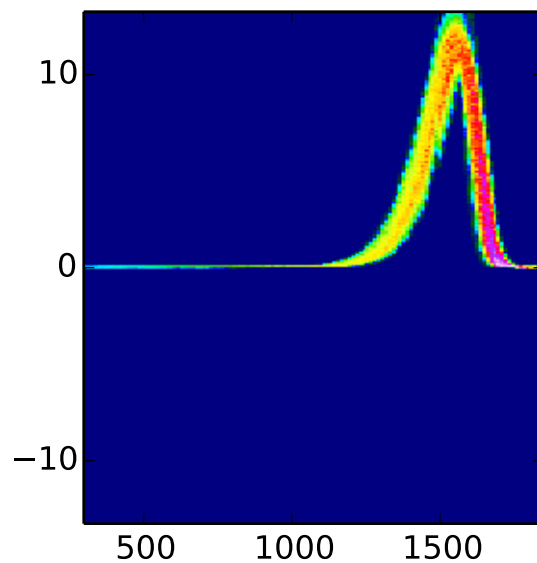
Curvature: -2800 : -2000



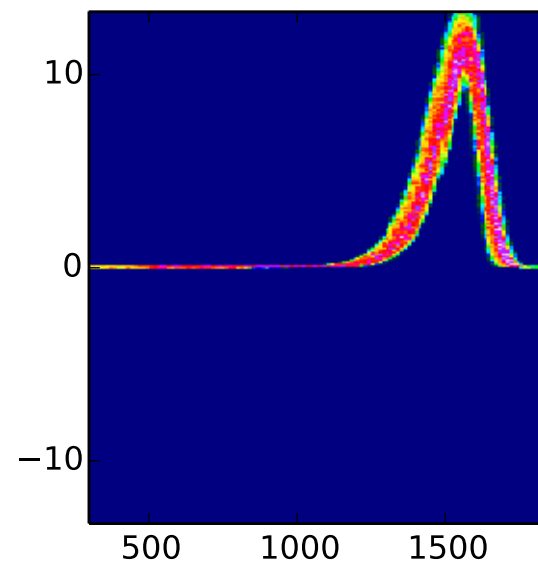
Curvature: -2000 : -1200



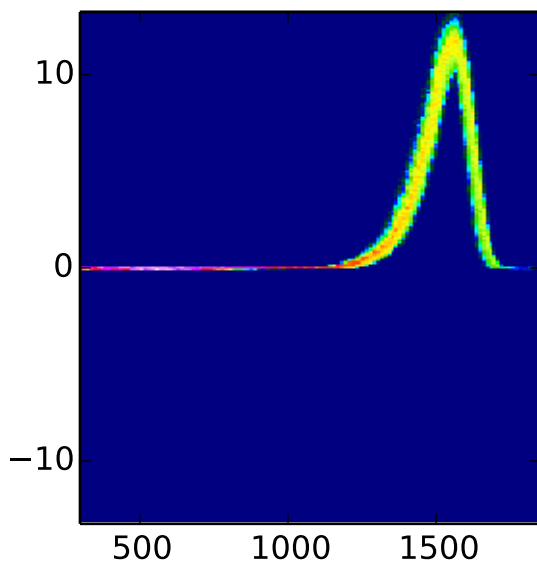
Curvature: -1200 : -400



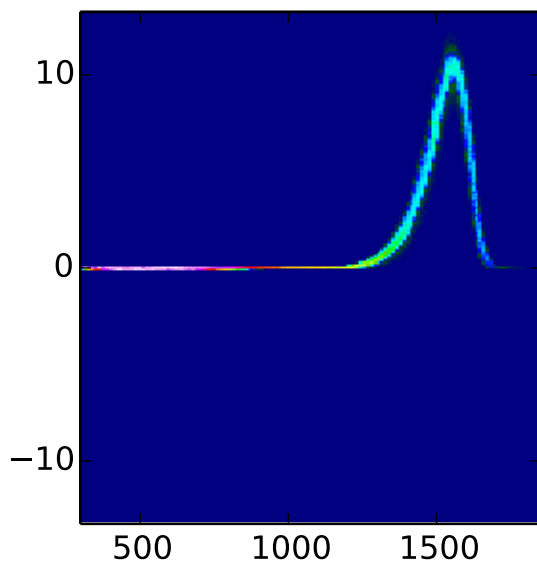
Curvature: -400 : 400



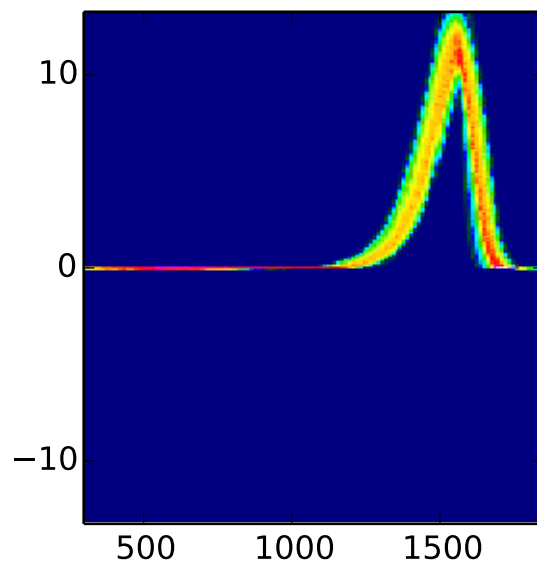
Curvature: 400 : 1200



Curvature: 1200 : 2000

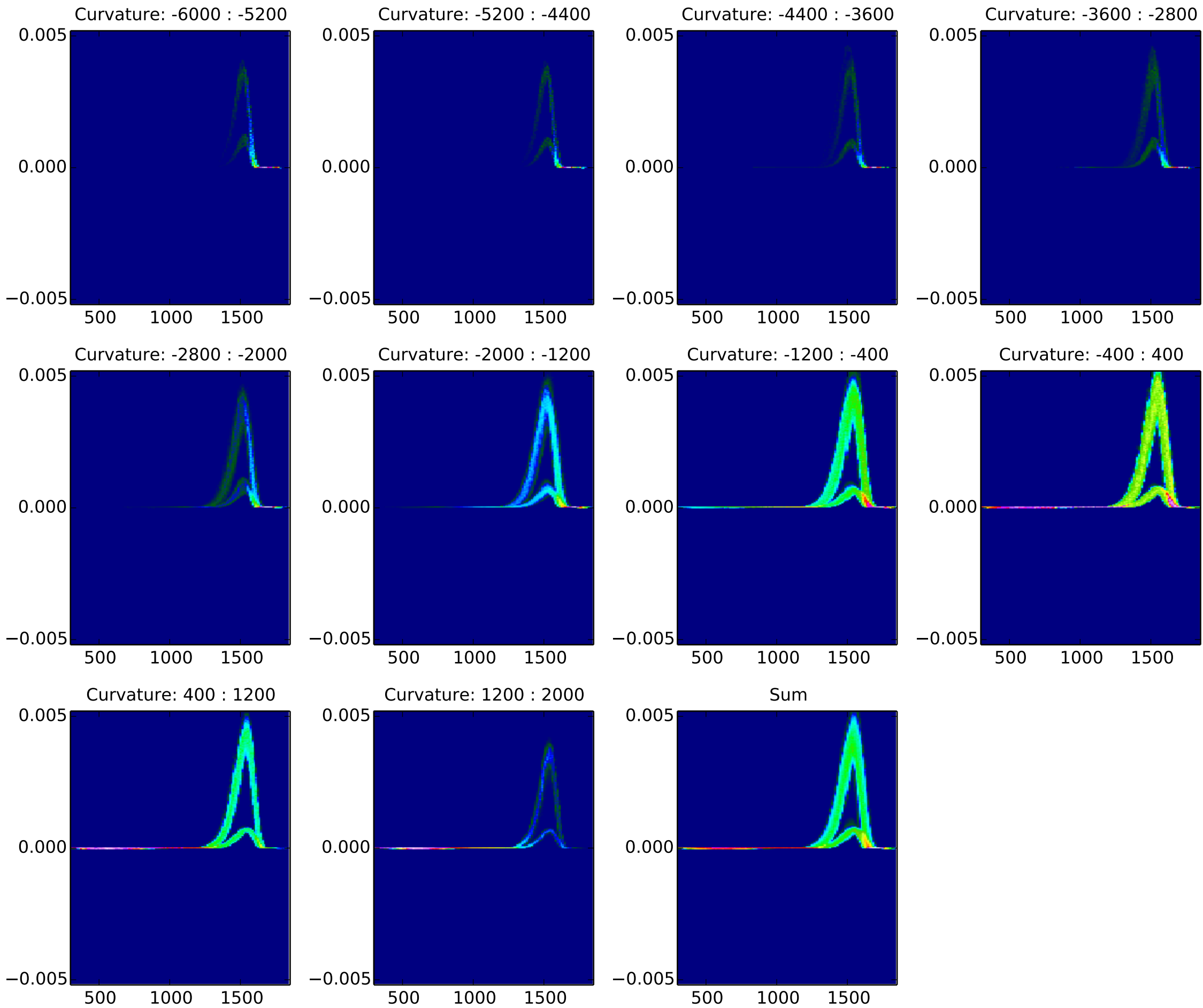


Sum



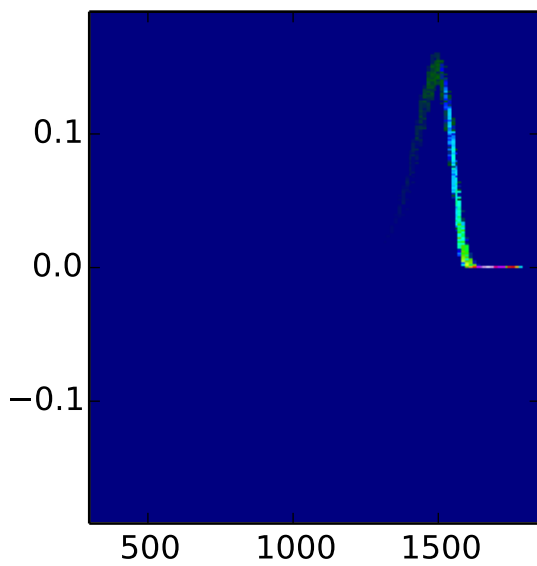


# Edge CH $\rightleftharpoons$ C2H2

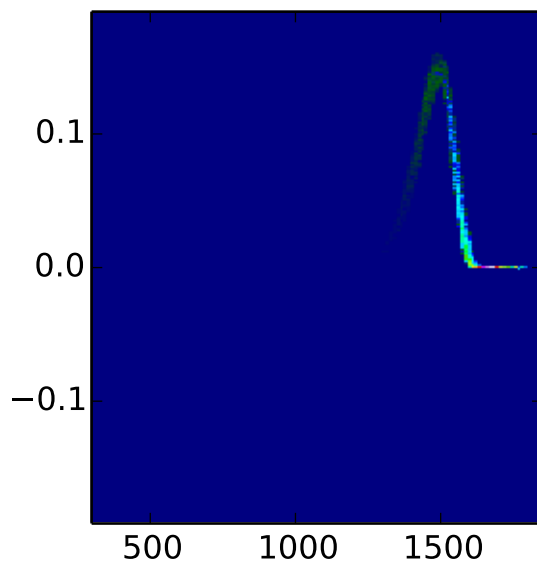


# Edge CH $\rightleftharpoons$ C2H3

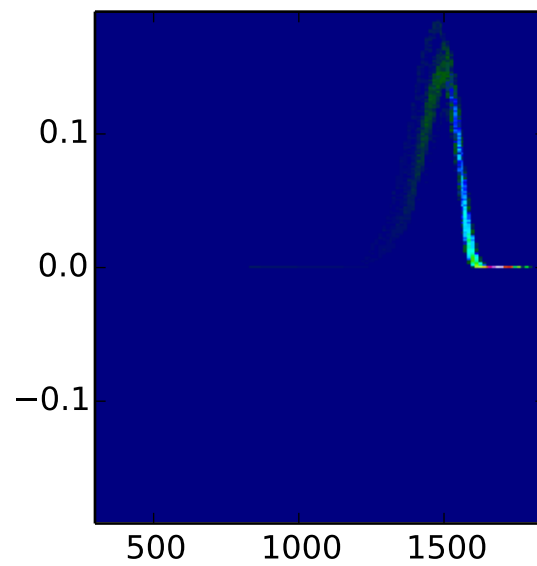
Curvature: -6000 : -5200



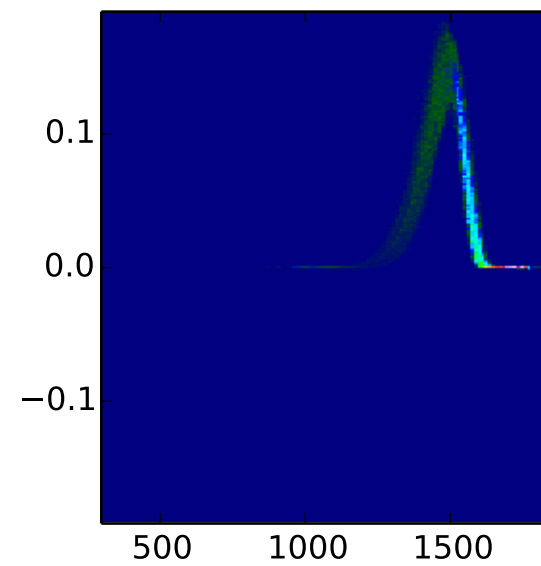
Curvature: -5200 : -4400



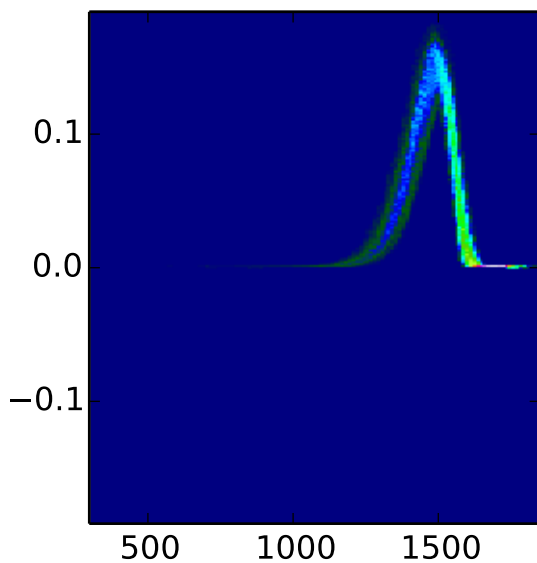
Curvature: -4400 : -3600



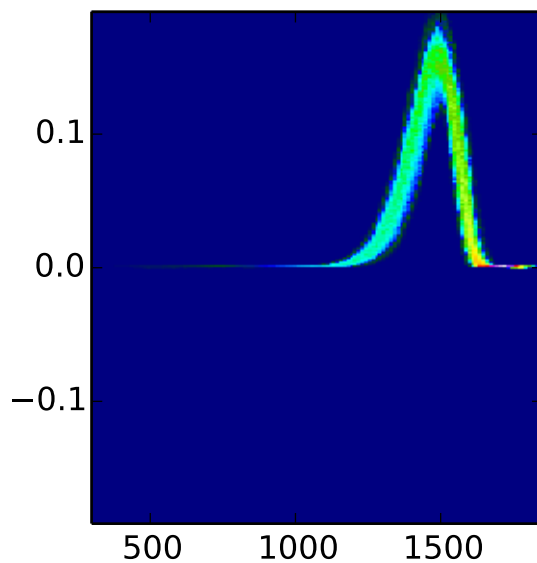
Curvature: -3600 : -2800



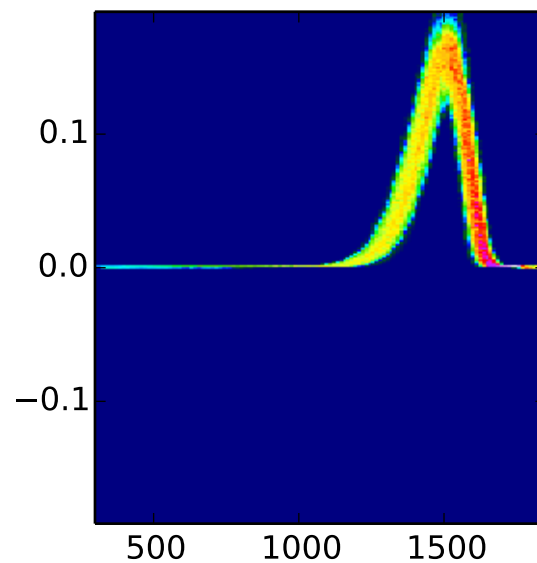
Curvature: -2800 : -2000



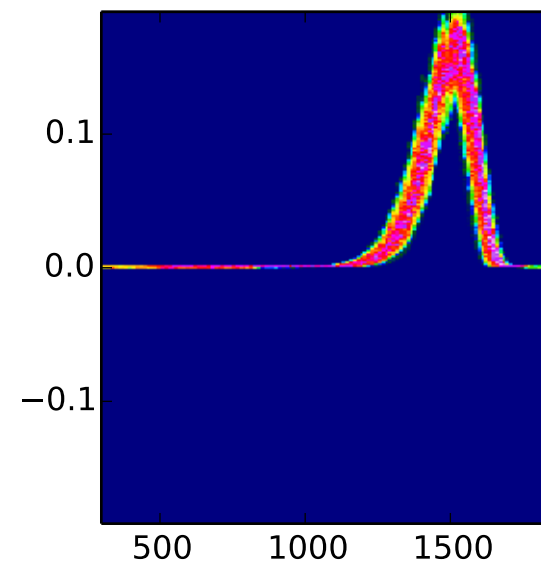
Curvature: -2000 : -1200



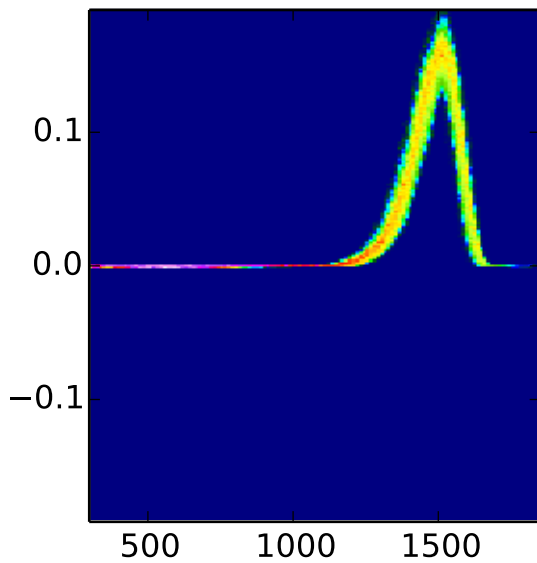
Curvature: -1200 : -400



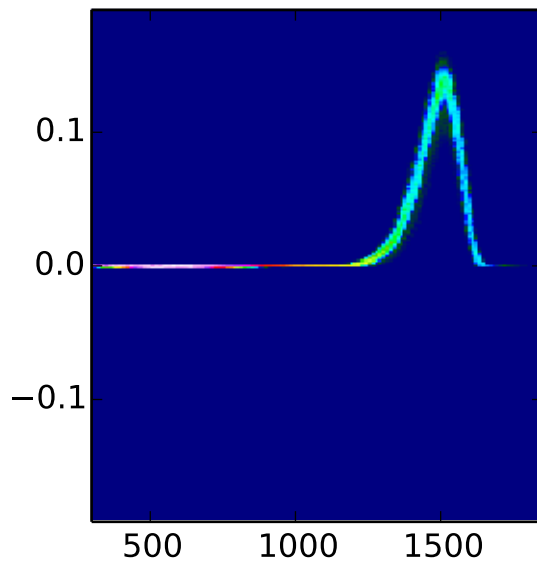
Curvature: -400 : 400



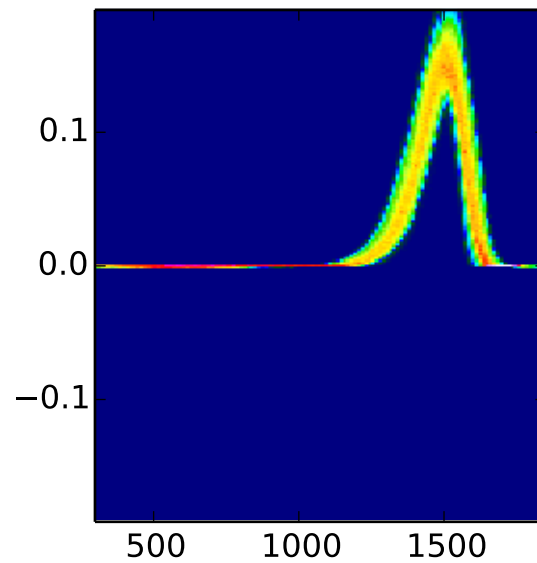
Curvature: 400 : 1200



Curvature: 1200 : 2000

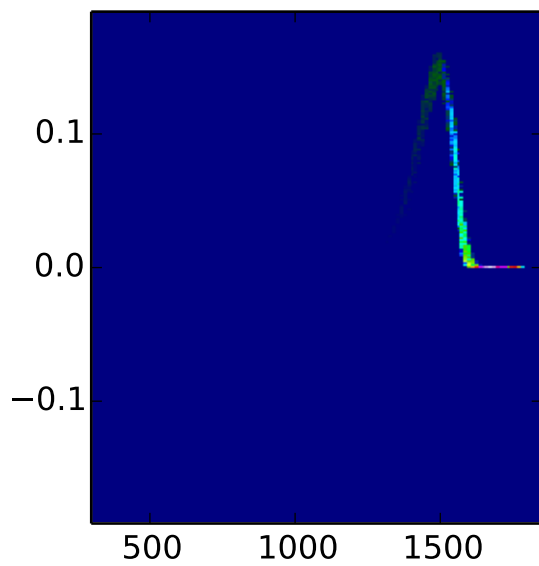


Sum

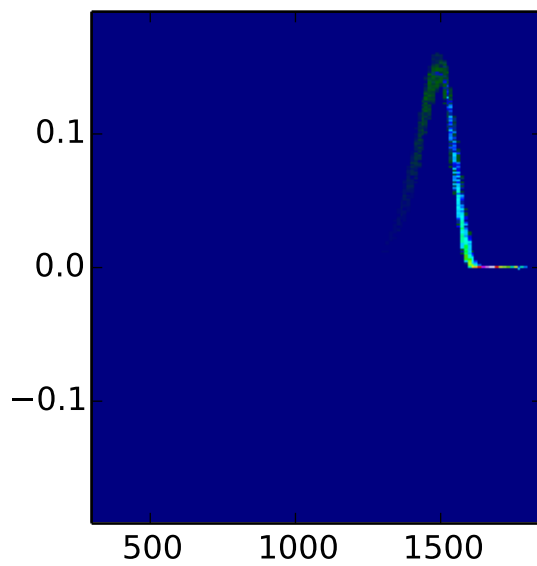


# Edge CH3 $\rightleftharpoons$ C2H3

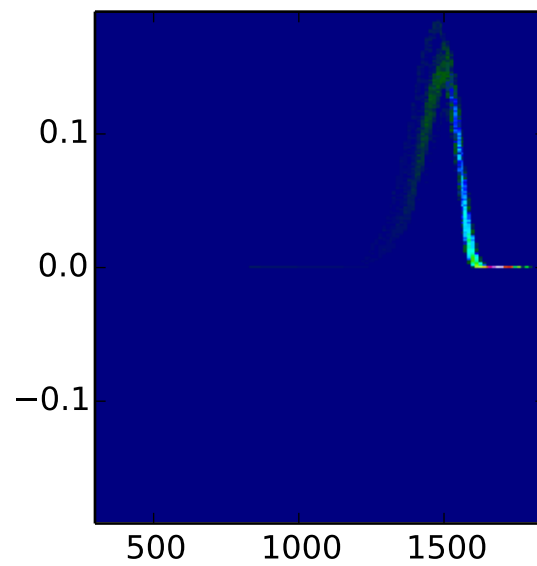
Curvature: -6000 : -5200



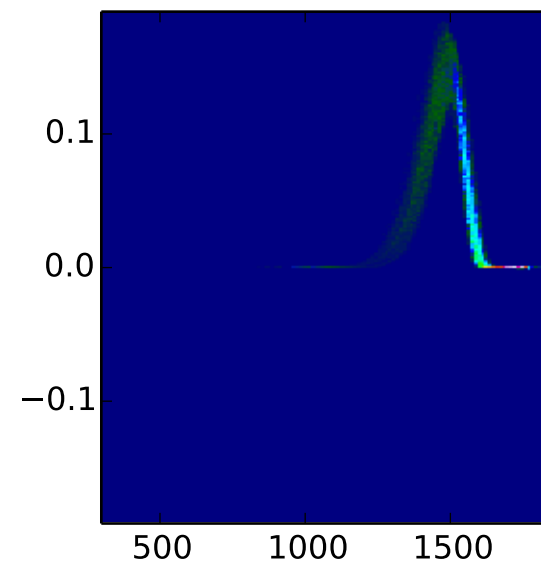
Curvature: -5200 : -4400



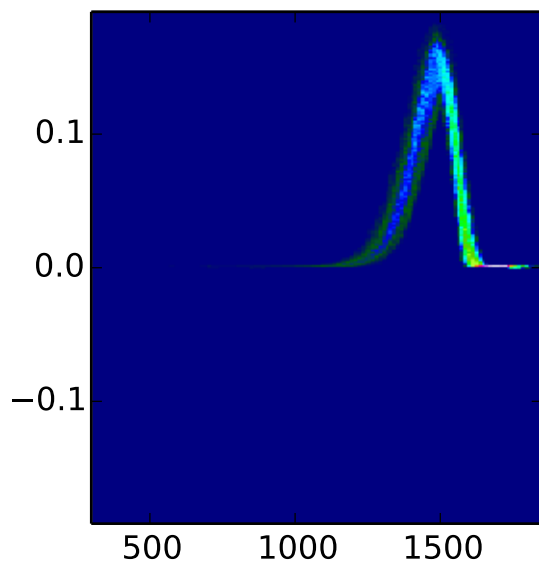
Curvature: -4400 : -3600



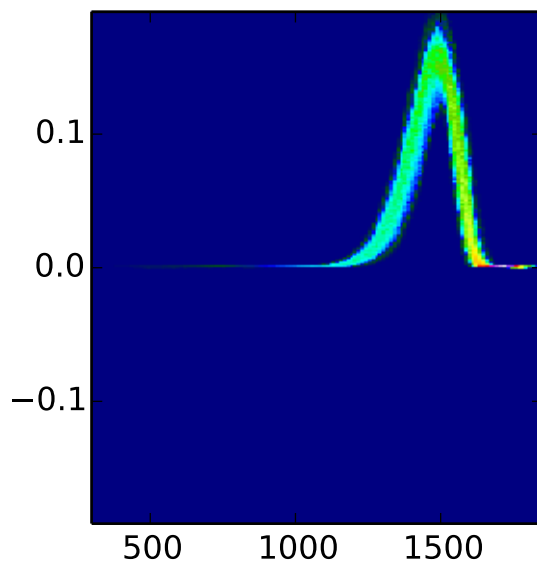
Curvature: -3600 : -2800



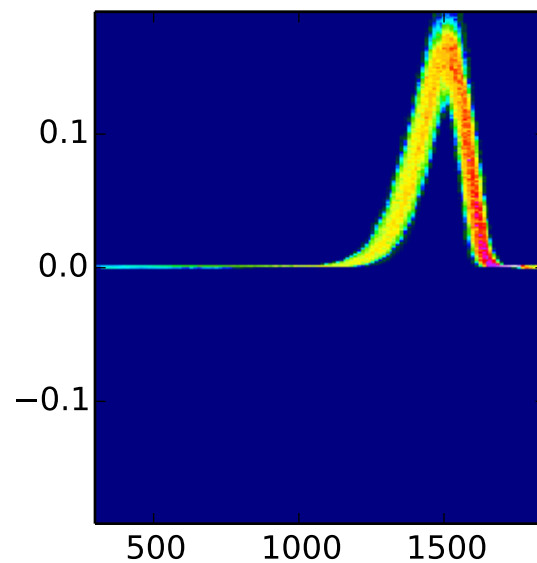
Curvature: -2800 : -2000



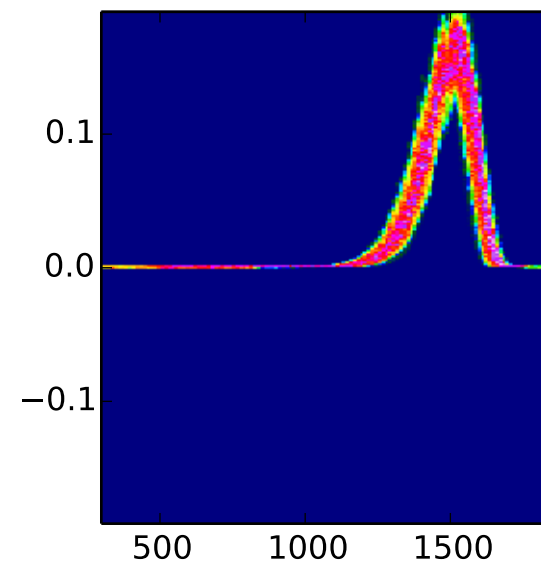
Curvature: -2000 : -1200



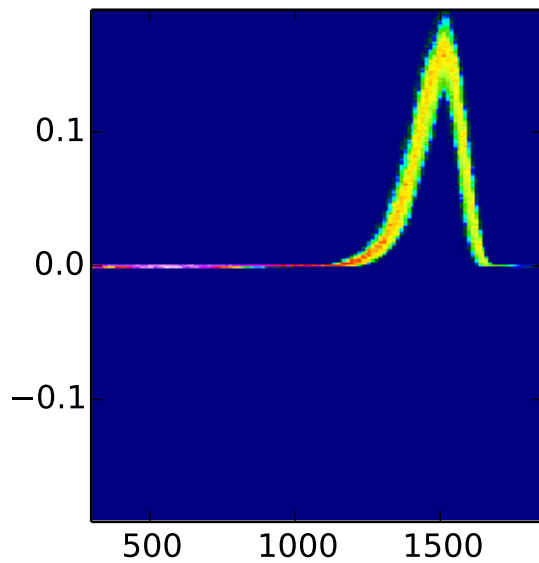
Curvature: -1200 : -400



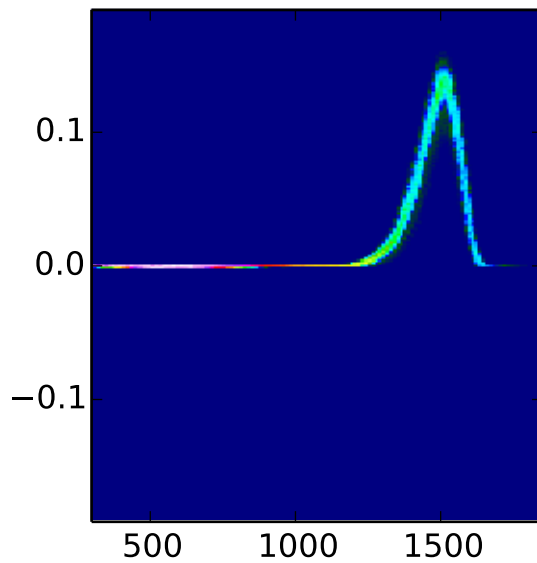
Curvature: -400 : 400



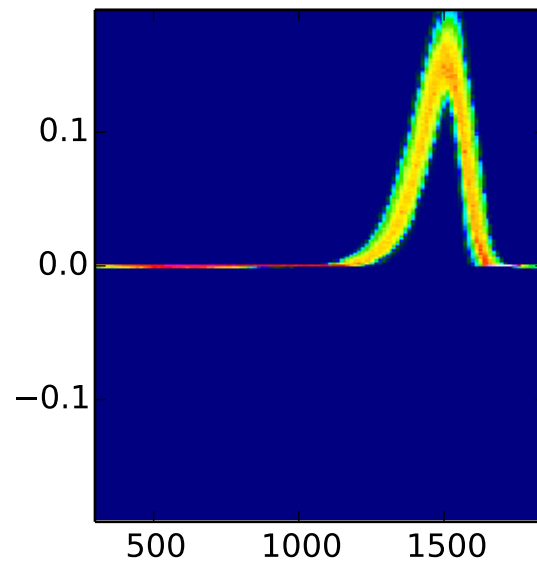
Curvature: 400 : 1200



Curvature: 1200 : 2000

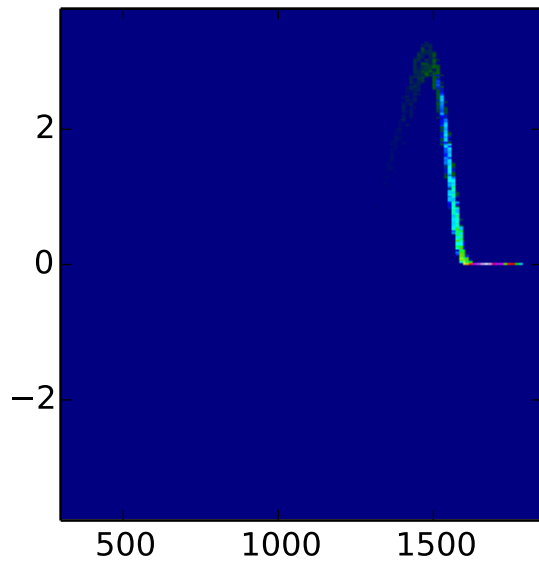


Sum

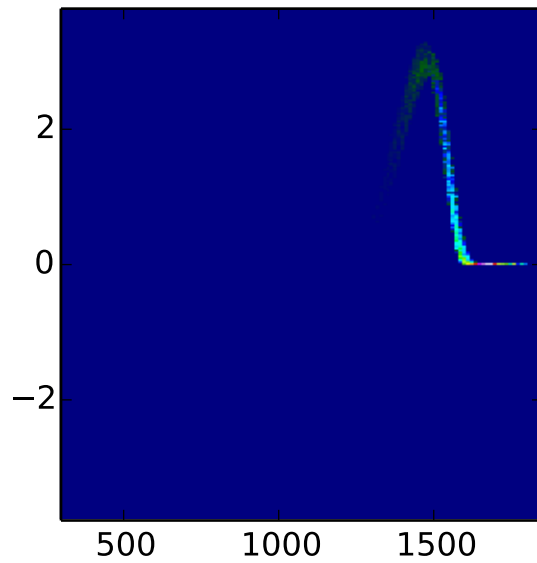


# Edge CH $\rightleftharpoons$ C2H4

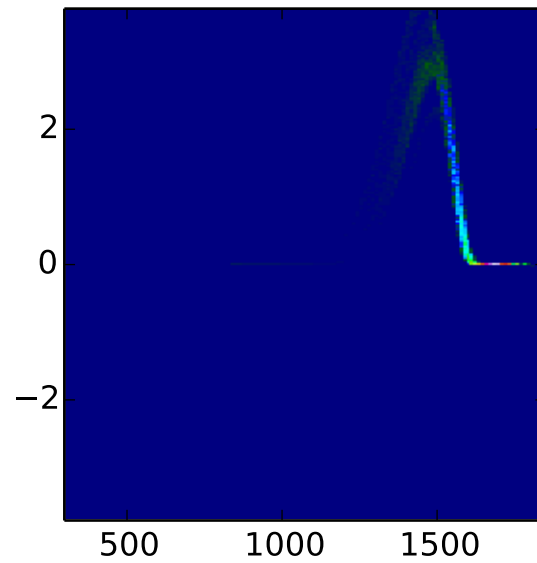
Curvature: -6000 : -5200



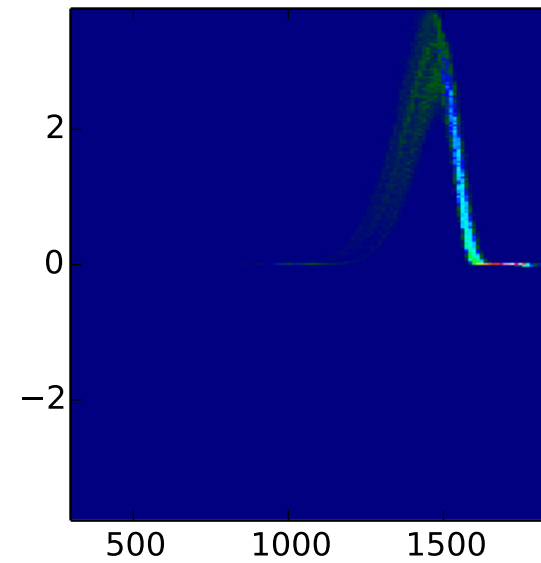
Curvature: -5200 : -4400



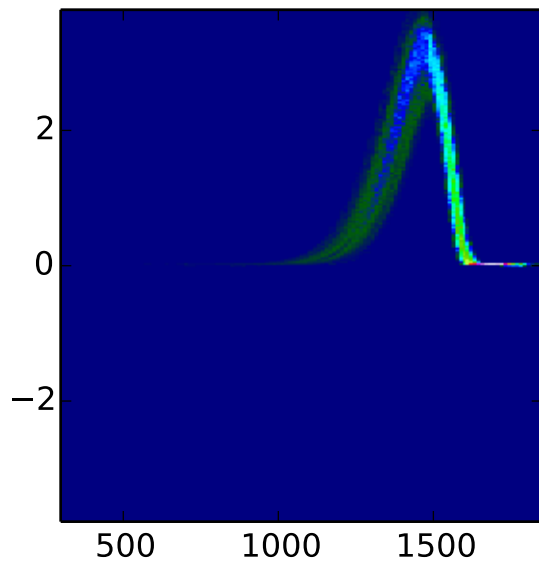
Curvature: -4400 : -3600



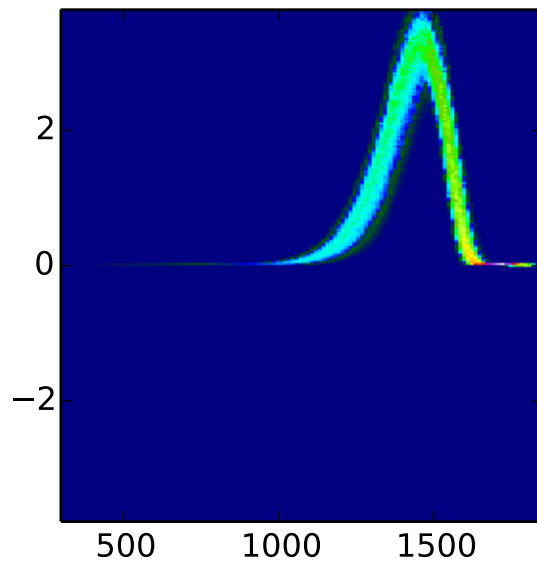
Curvature: -3600 : -2800



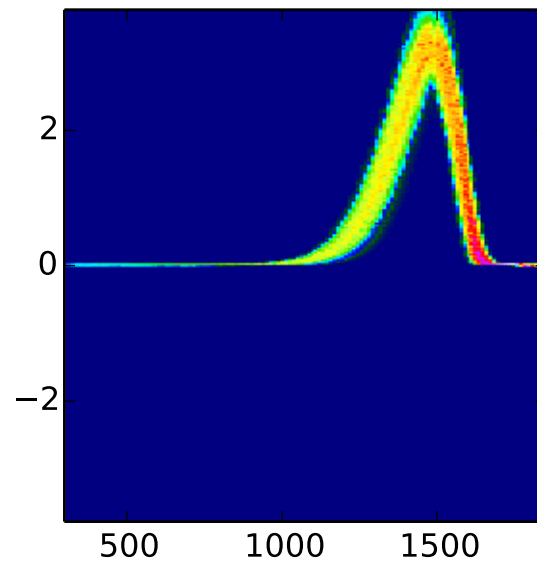
Curvature: -2800 : -2000



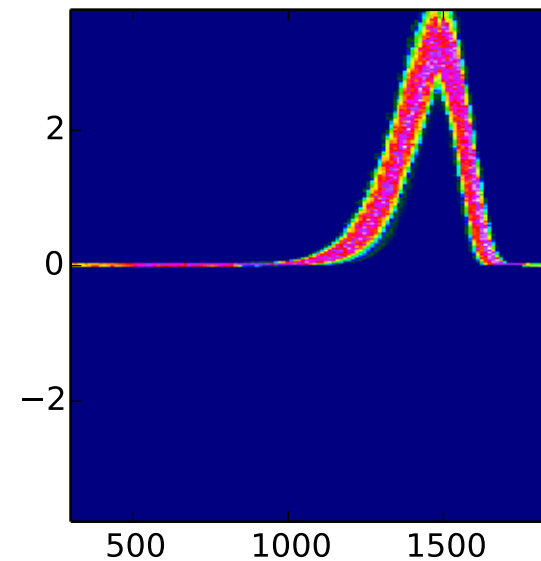
Curvature: -2000 : -1200



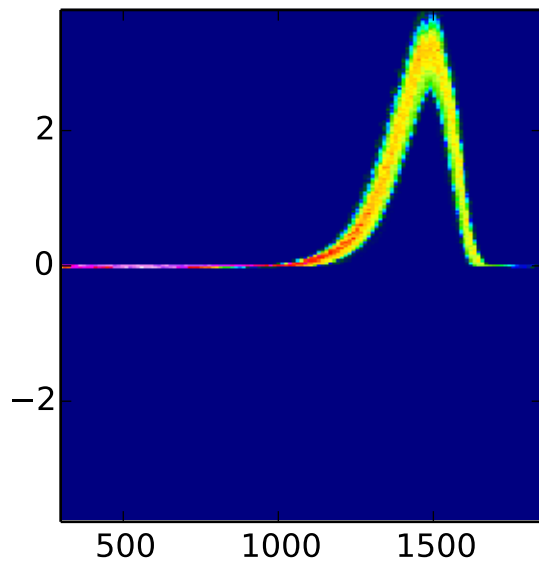
Curvature: -1200 : -400



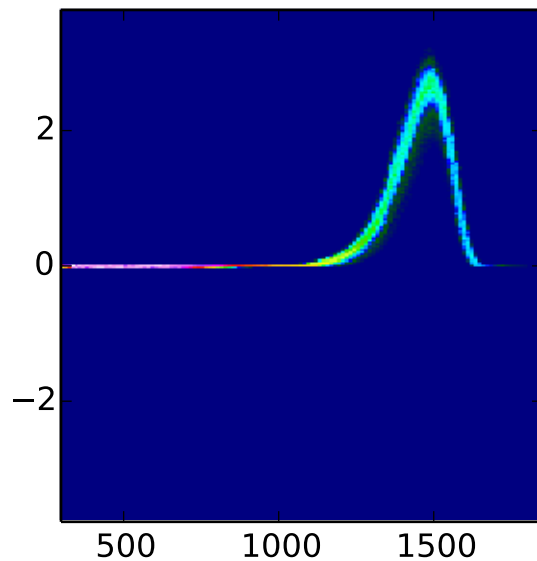
Curvature: -400 : 400



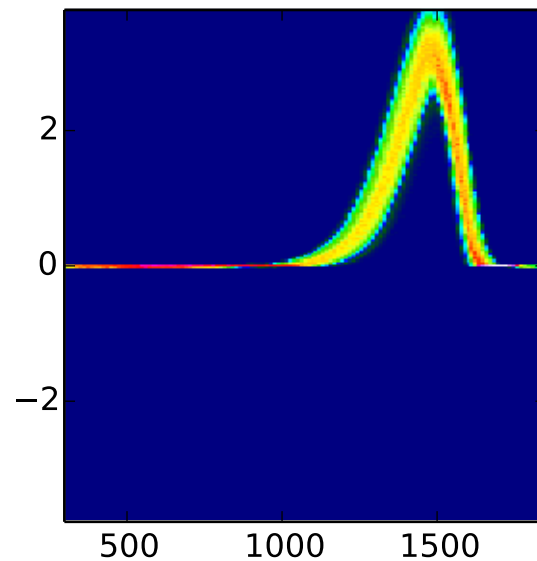
Curvature: 400 : 1200



Curvature: 1200 : 2000

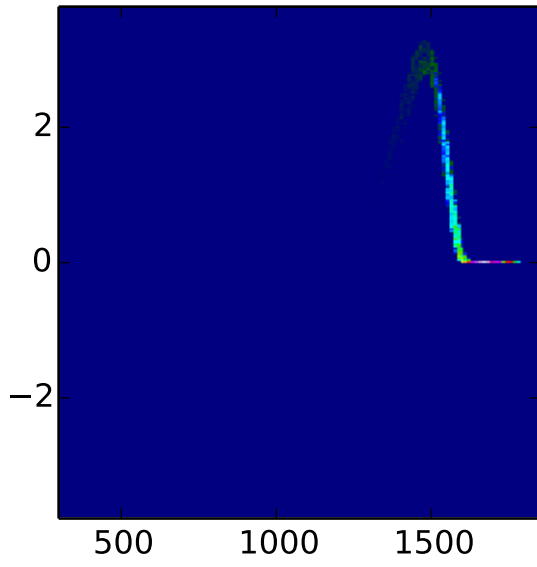


Sum

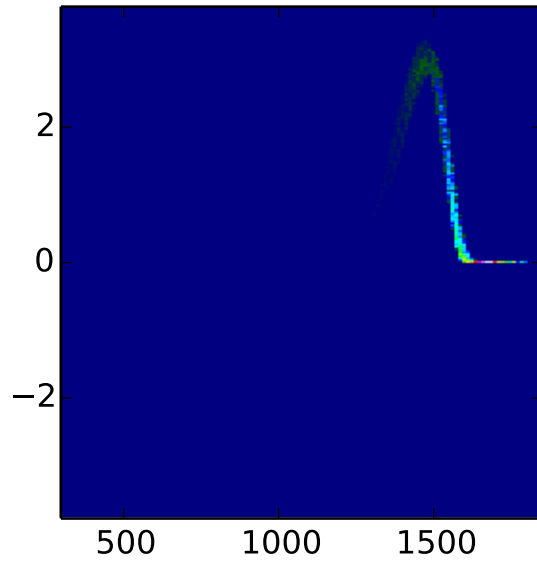


# Edge CH4 $\rightleftharpoons$ C2H4

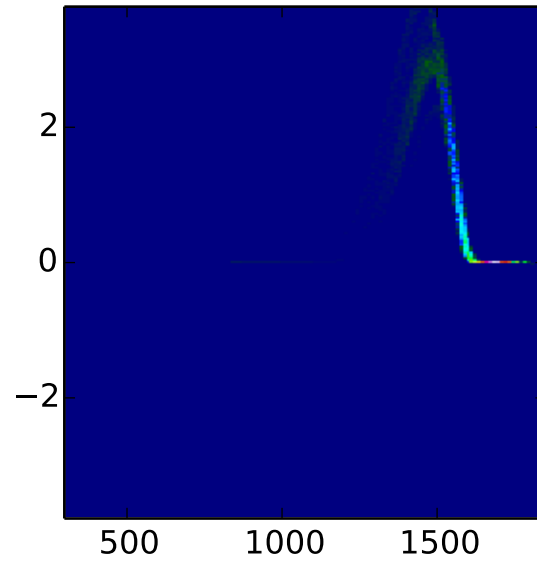
Curvature: -6000 : -5200



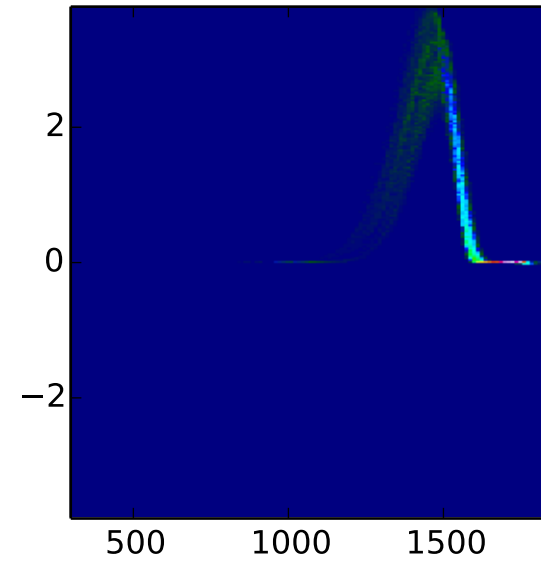
Curvature: -5200 : -4400



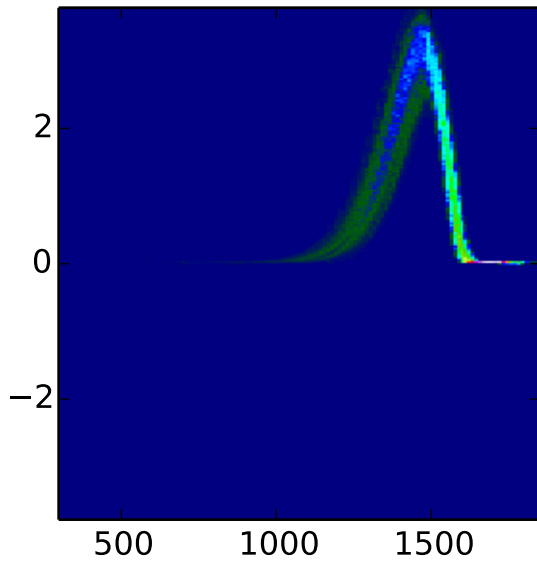
Curvature: -4400 : -3600



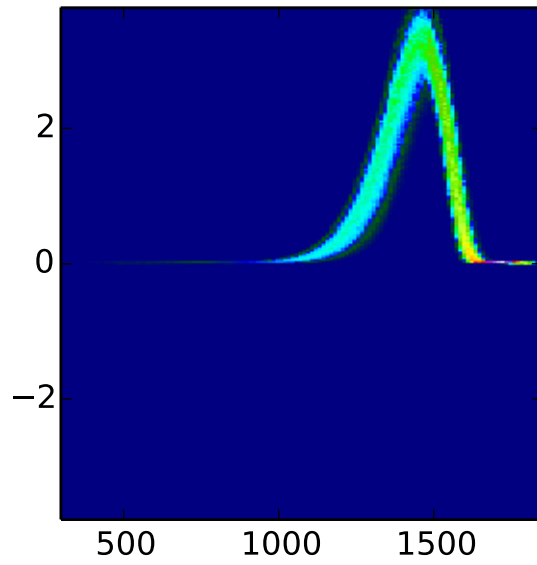
Curvature: -3600 : -2800



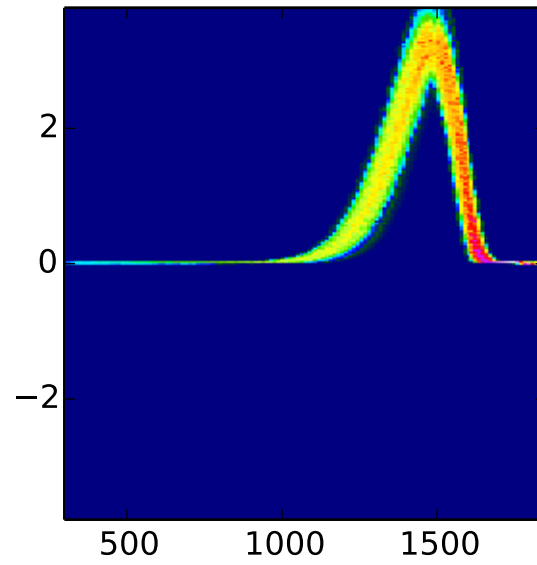
Curvature: -2800 : -2000



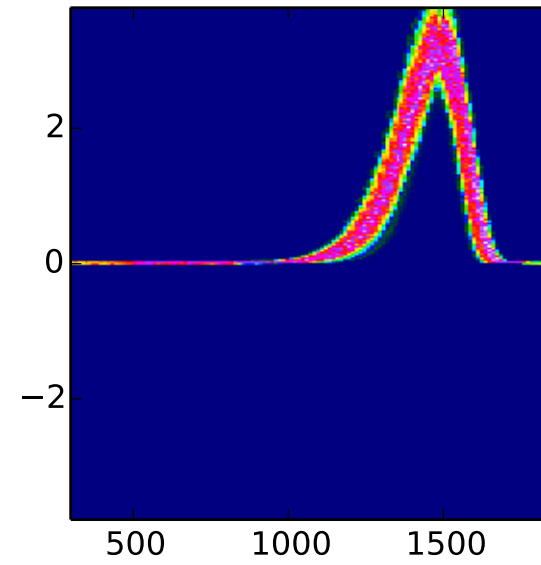
Curvature: -2000 : -1200



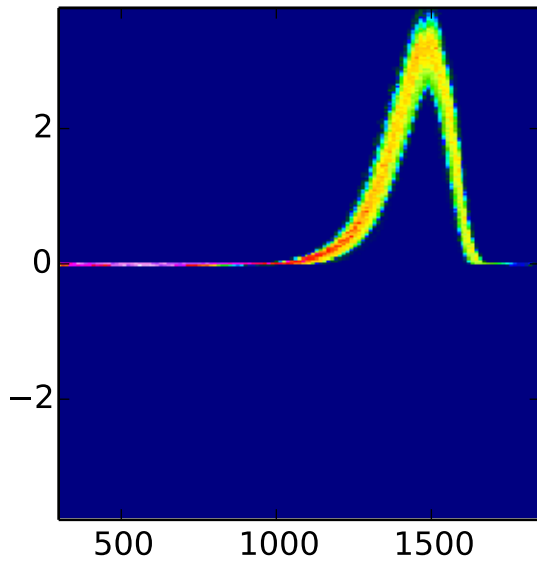
Curvature: -1200 : -400



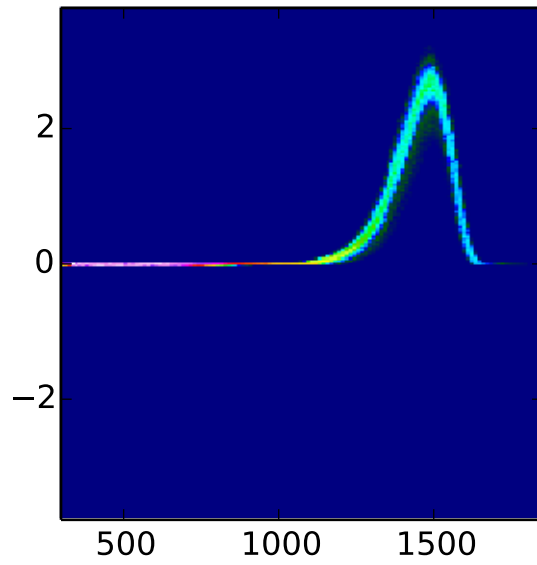
Curvature: -400 : 400



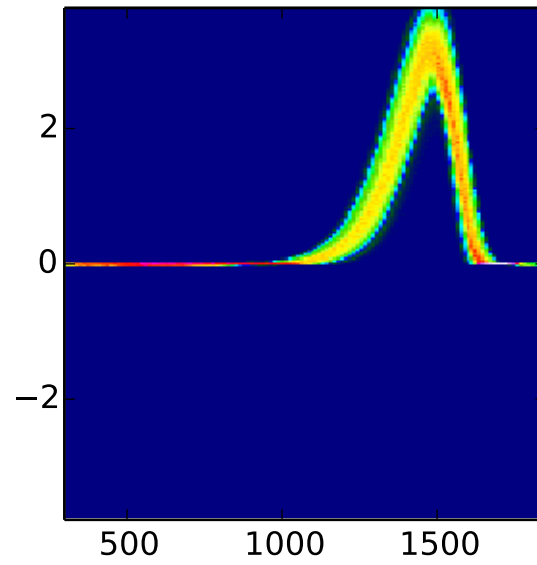
Curvature: 400 : 1200



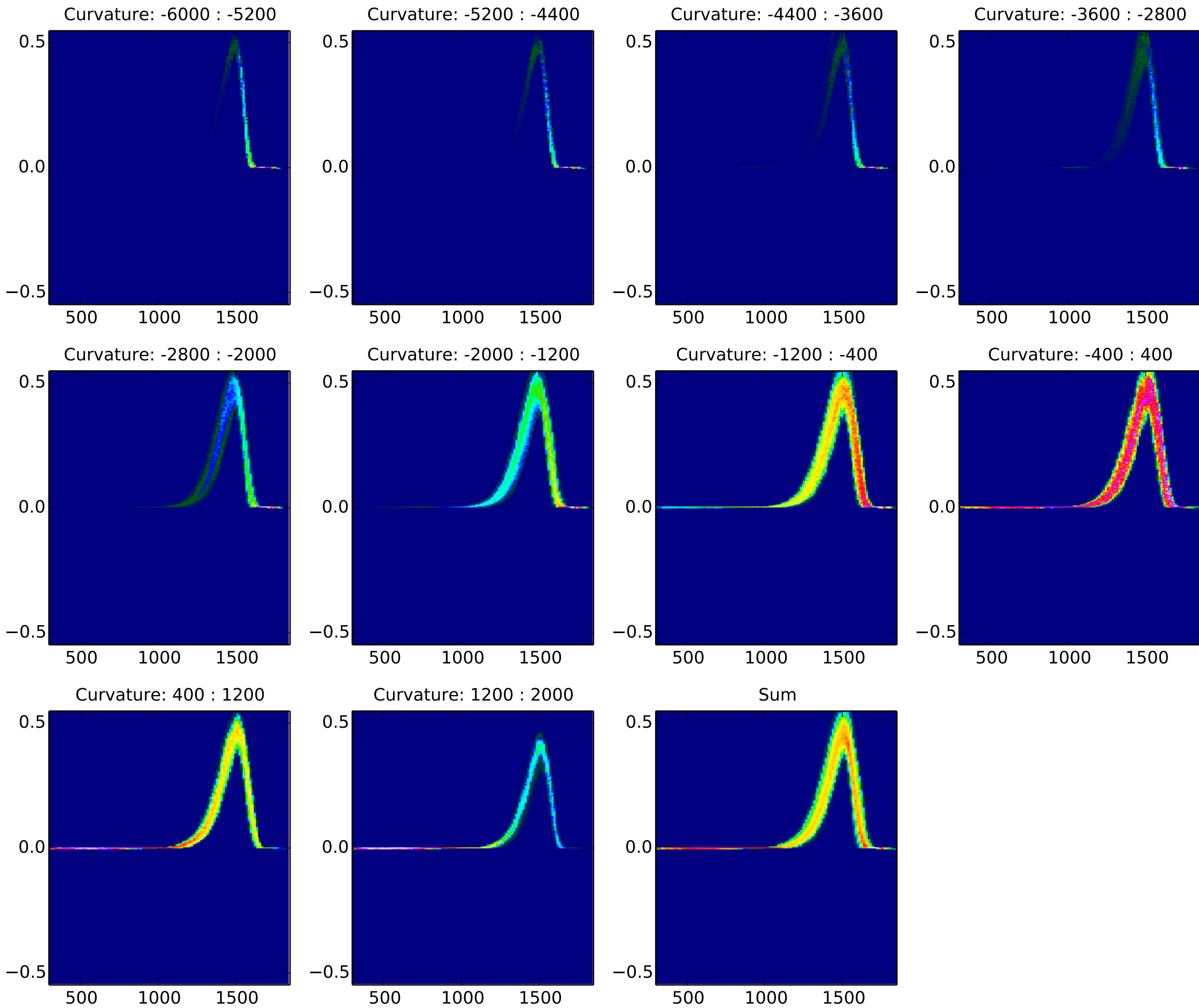
Curvature: 1200 : 2000



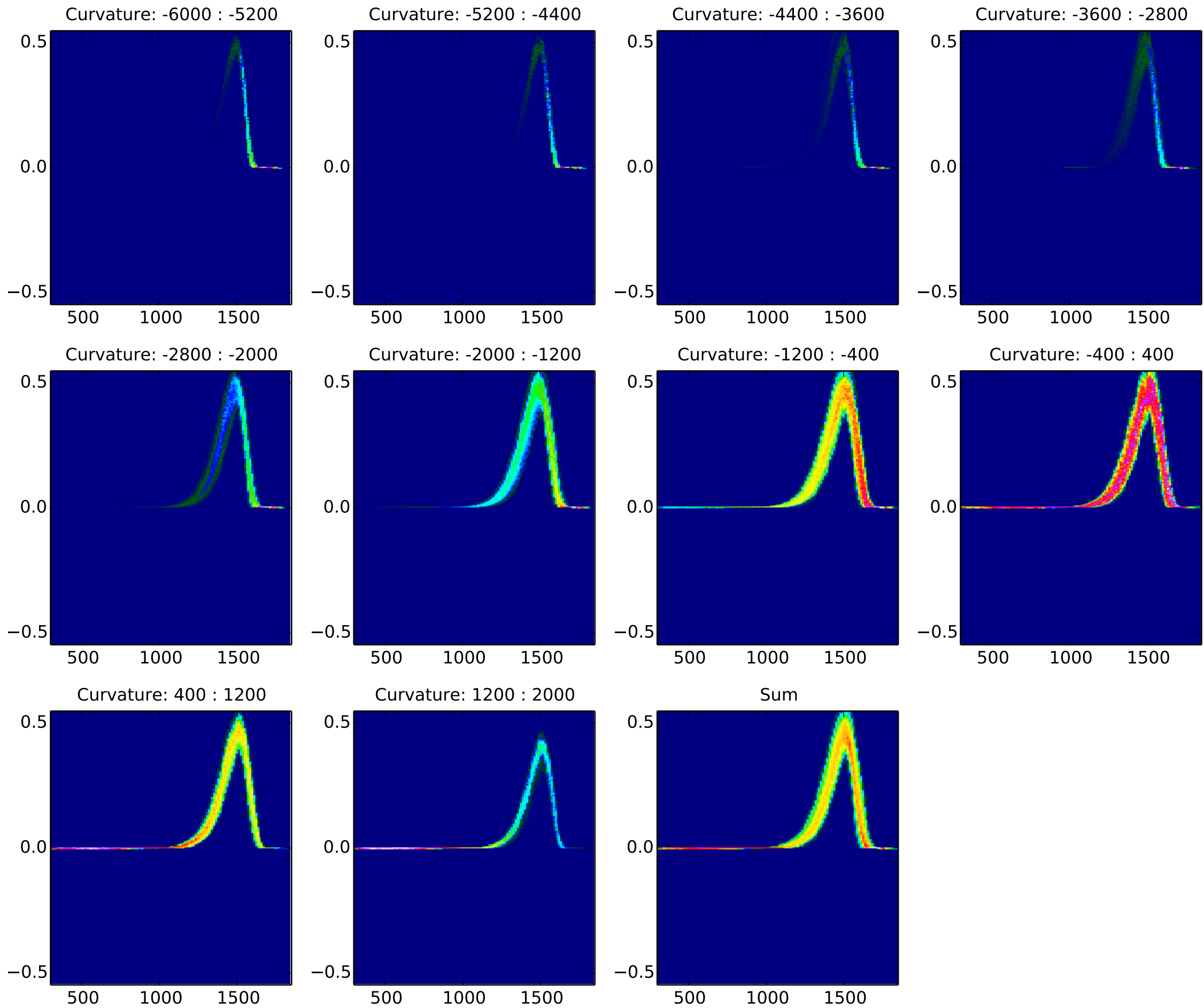
Sum



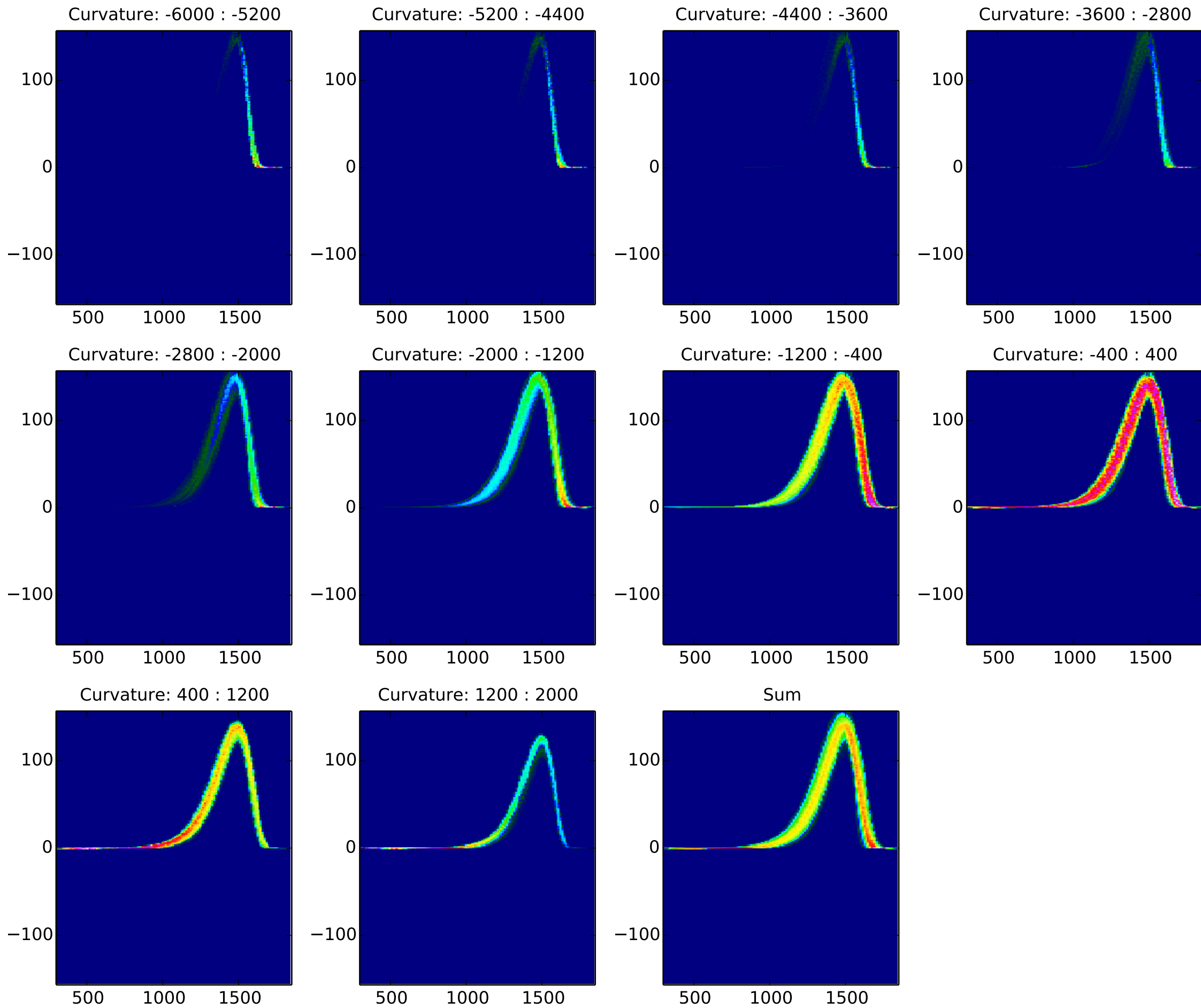
# Edge CH $\rightleftharpoons$ CH<sub>2</sub>CO



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



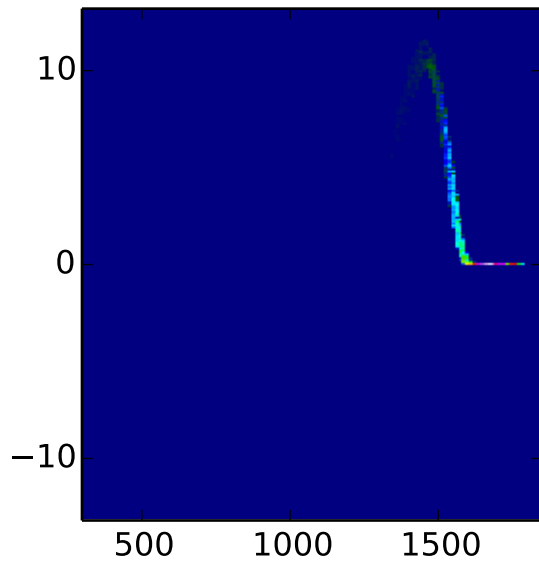
# Edge CH2 $\rightleftharpoons$ CO



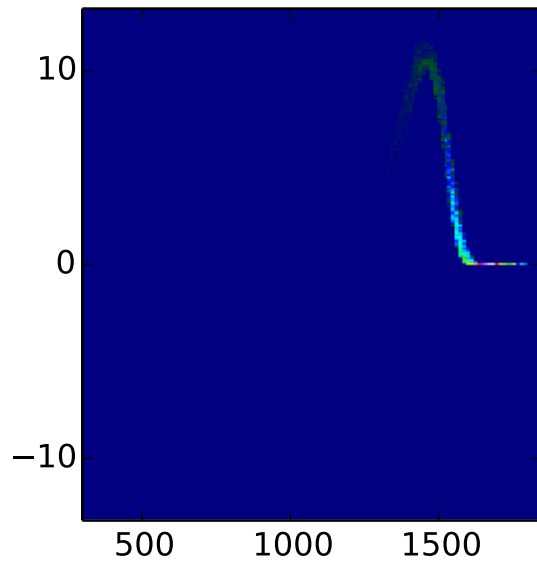


# Edge CH<sub>2</sub> $\rightleftharpoons$ C<sub>2</sub>H<sub>4</sub>

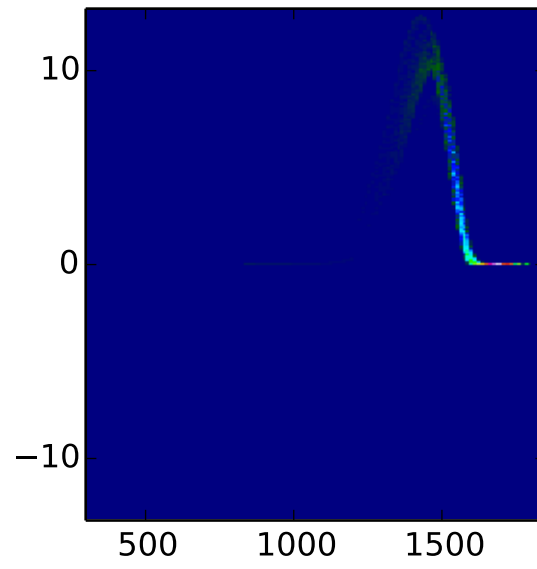
Curvature: -6000 : -5200



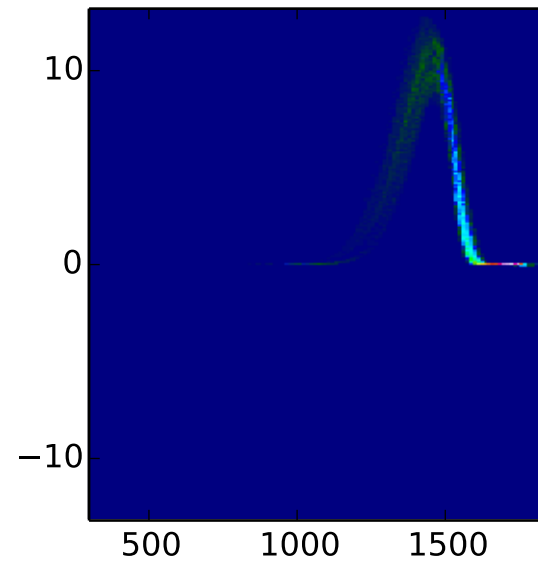
Curvature: -5200 : -4400



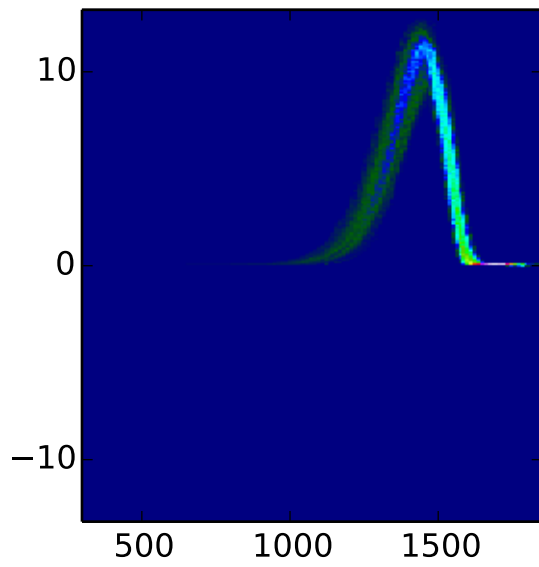
Curvature: -4400 : -3600



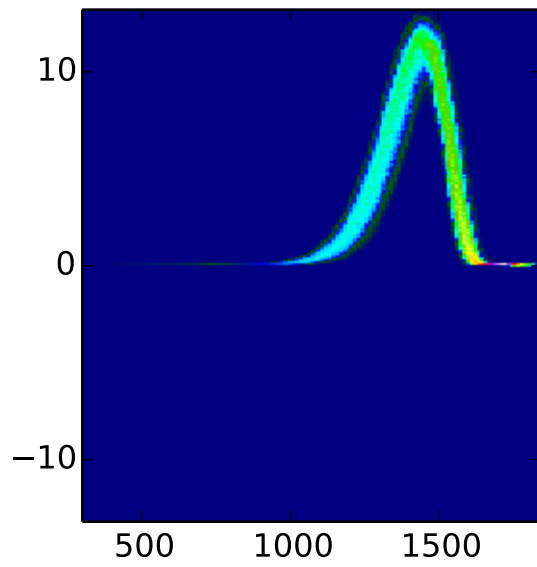
Curvature: -3600 : -2800



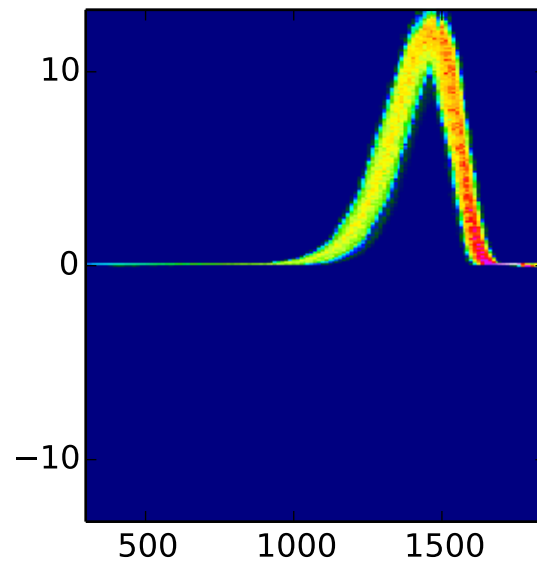
Curvature: -2800 : -2000



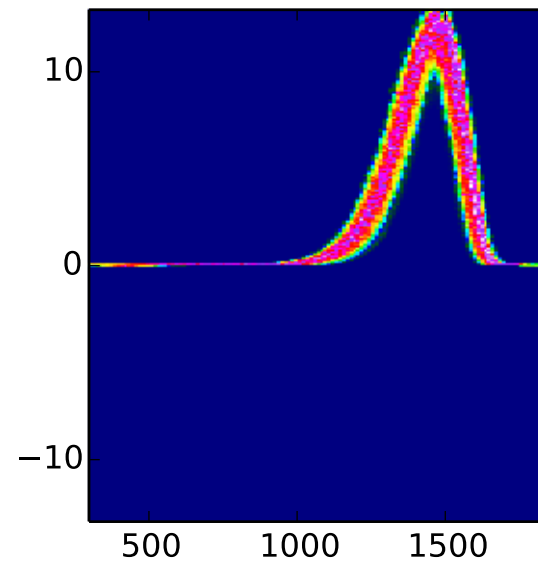
Curvature: -2000 : -1200



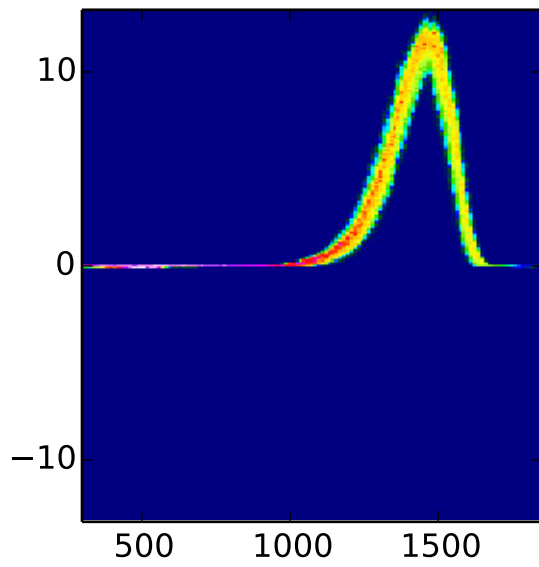
Curvature: -1200 : -400



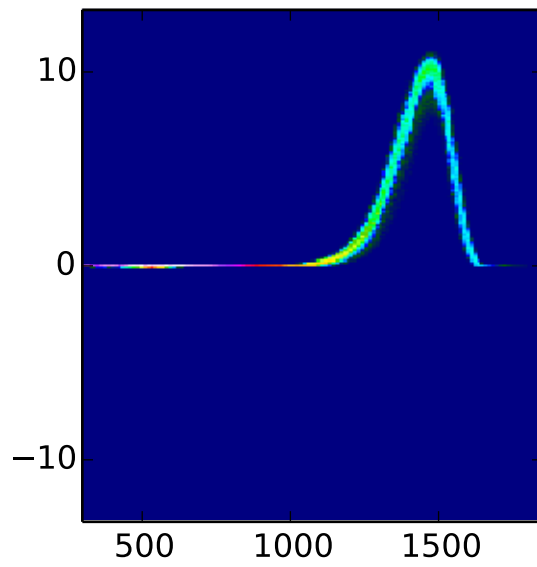
Curvature: -400 : 400



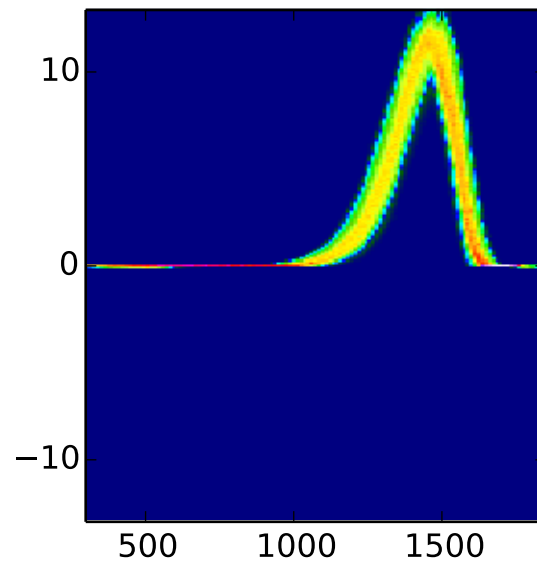
Curvature: 400 : 1200



Curvature: 1200 : 2000

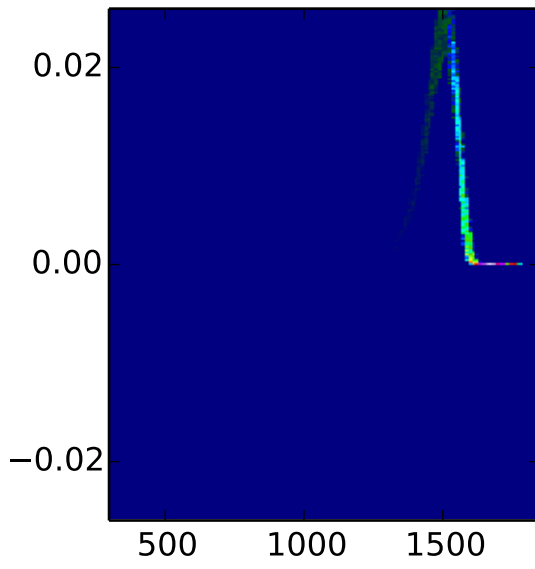


Sum

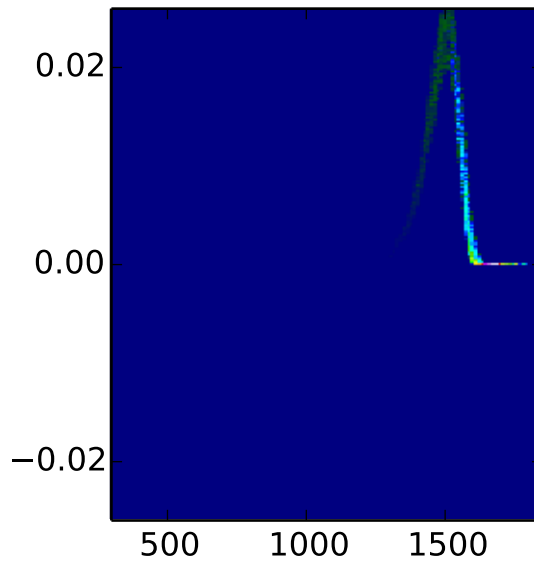


# Edge CH2 $\rightleftharpoons$ C2H3

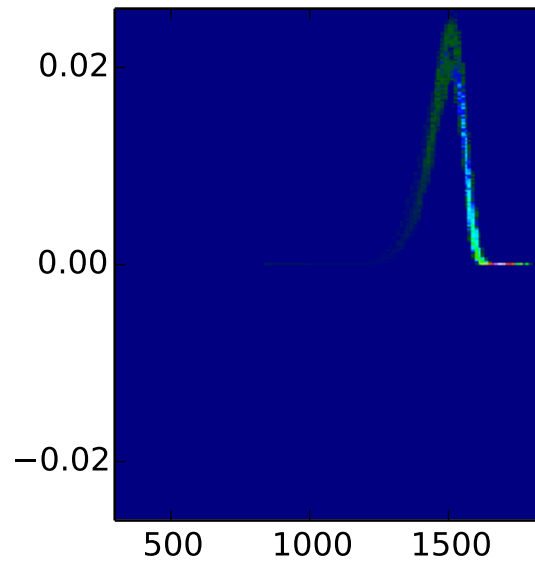
Curvature: -6000 : -5200



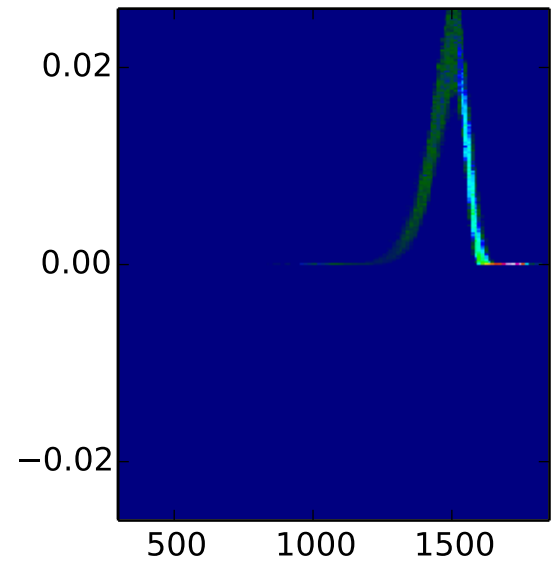
Curvature: -5200 : -4400



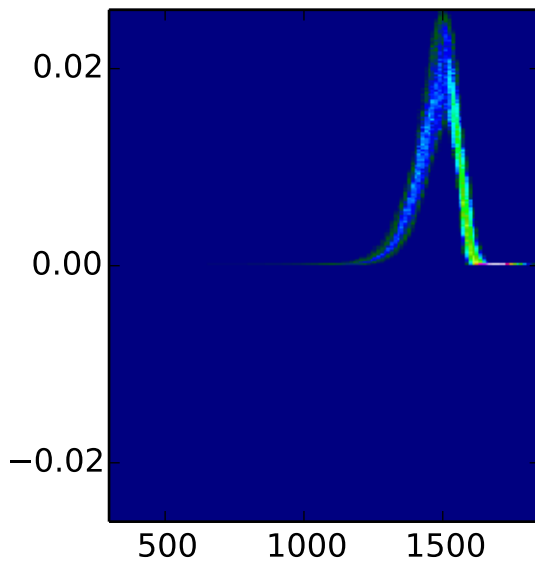
Curvature: -4400 : -3600



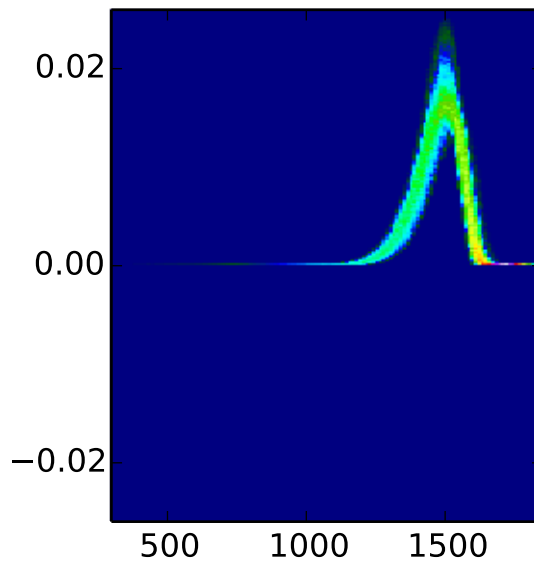
Curvature: -3600 : -2800



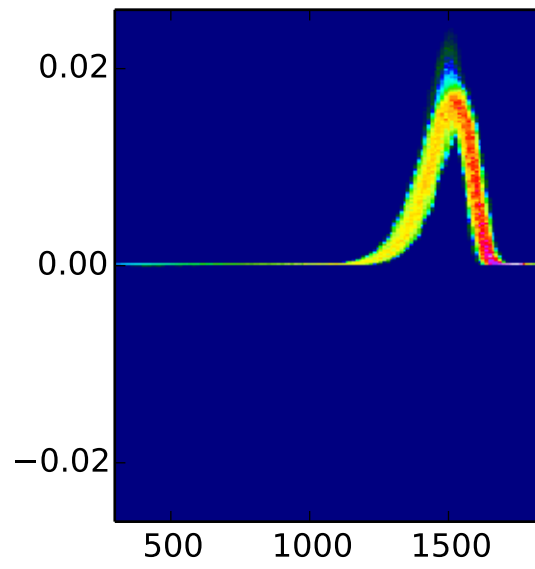
Curvature: -2800 : -2000



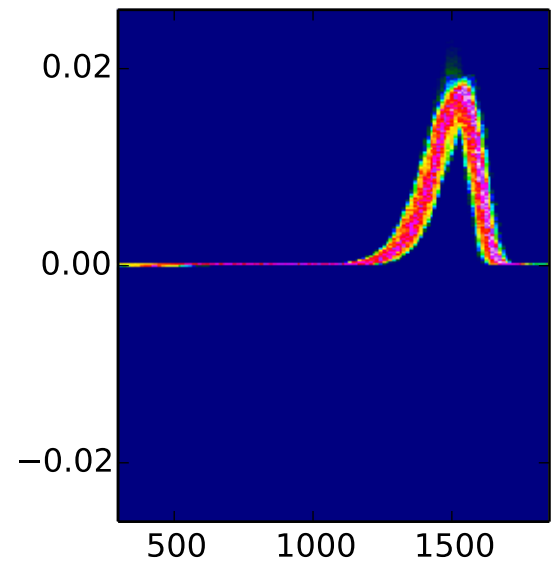
Curvature: -2000 : -1200



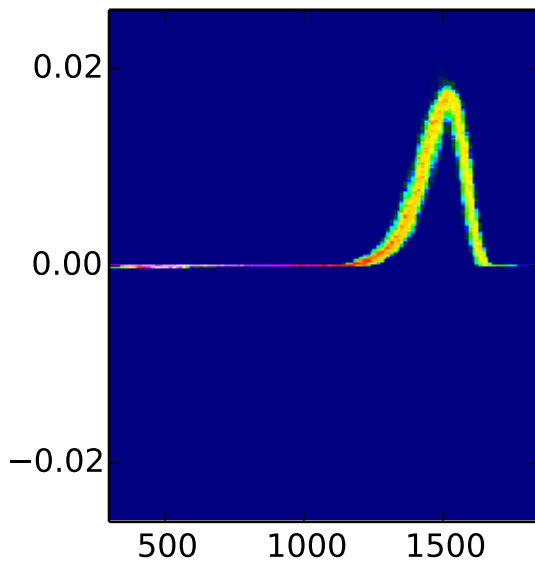
Curvature: -1200 : -400



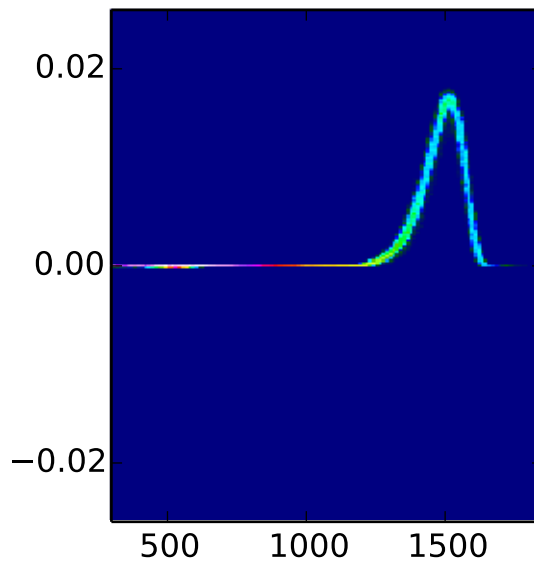
Curvature: -400 : 400



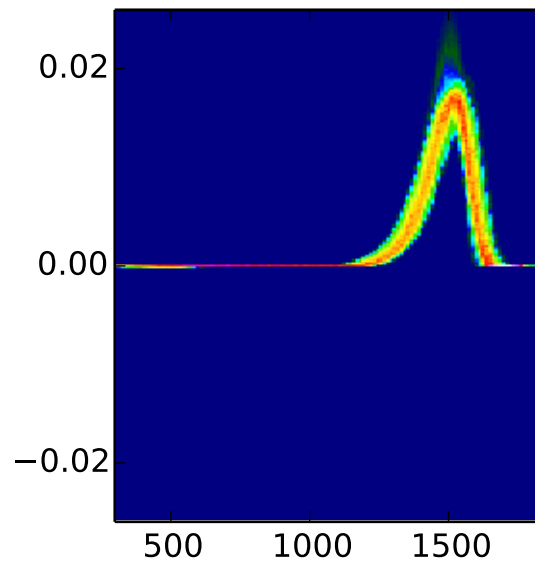
Curvature: 400 : 1200



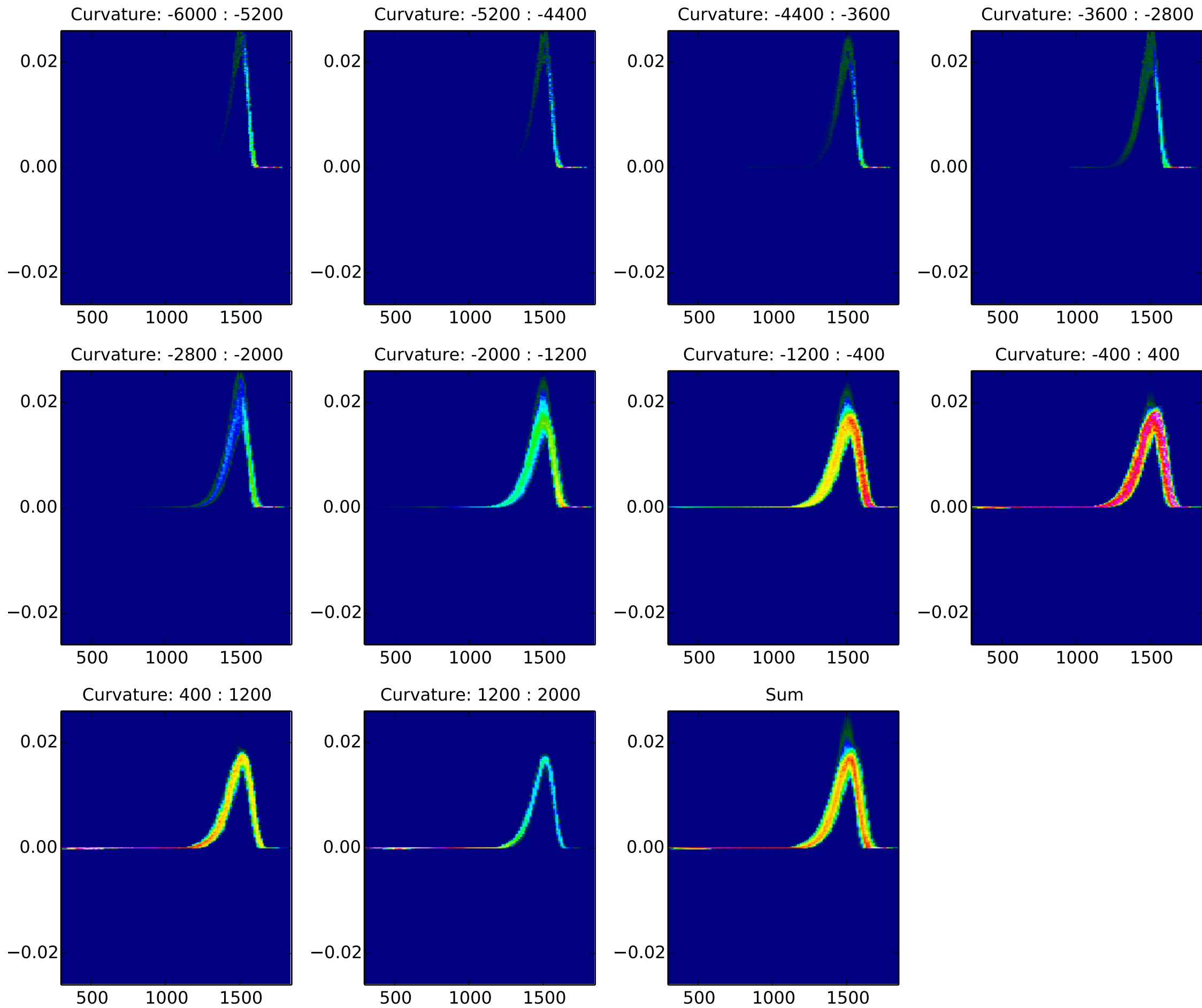
Curvature: 1200 : 2000



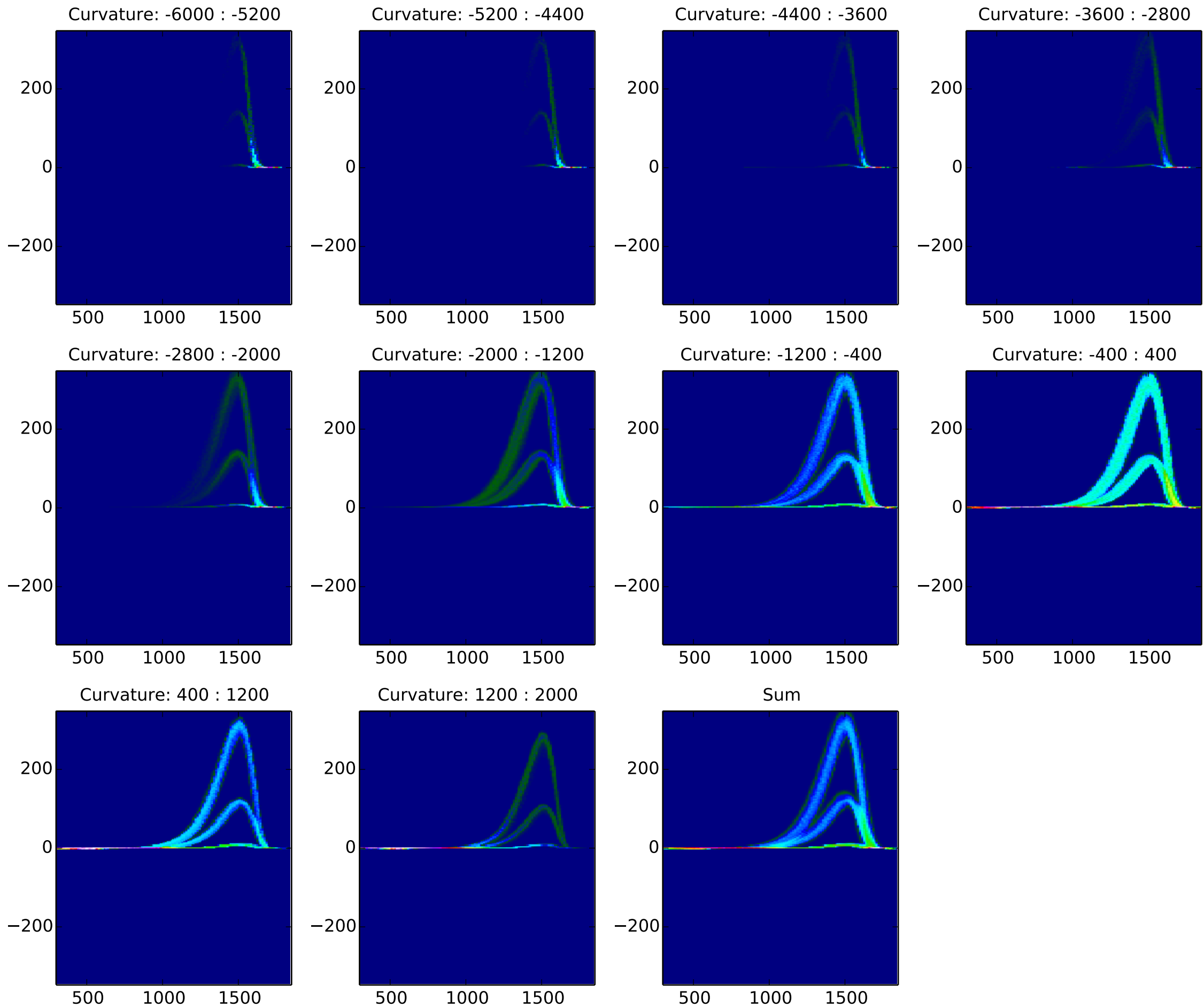
Sum



# Edge HCCO $\rightleftharpoons$ C2H3

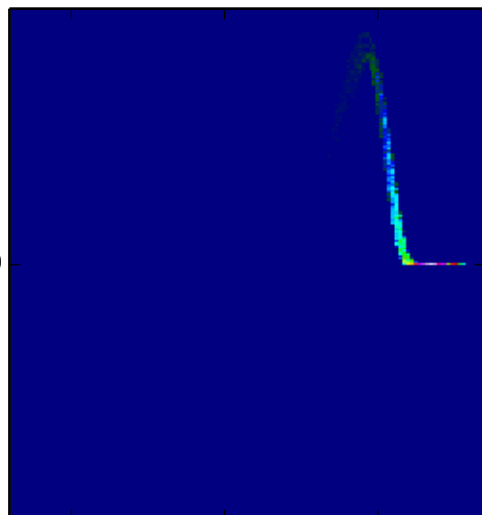


# Edge CH<sub>2</sub>(S) $\rightleftharpoons$ CH<sub>2</sub>

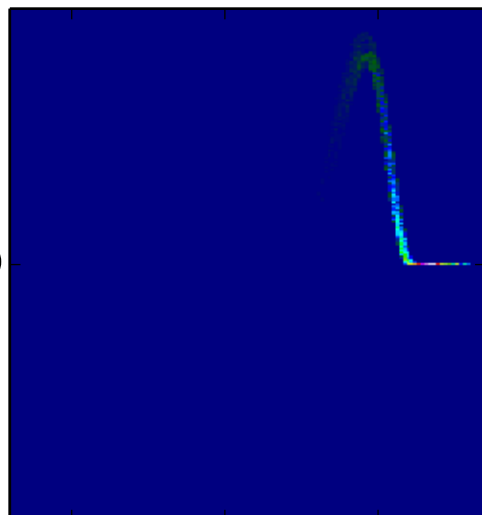


# Edge CH<sub>2</sub>(S) $\rightleftharpoons$ C<sub>2</sub>H<sub>4</sub>

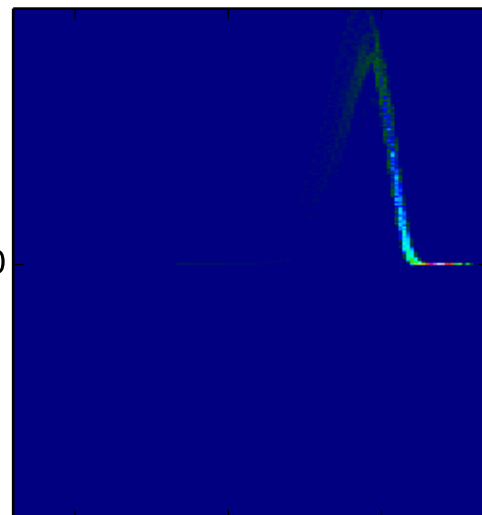
Curvature: -6000 : -5200



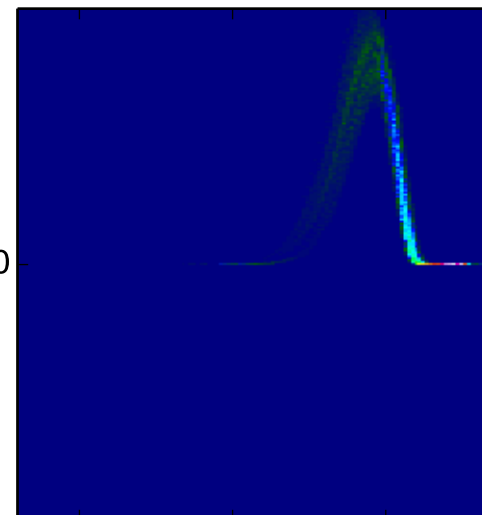
Curvature: -5200 : -4400



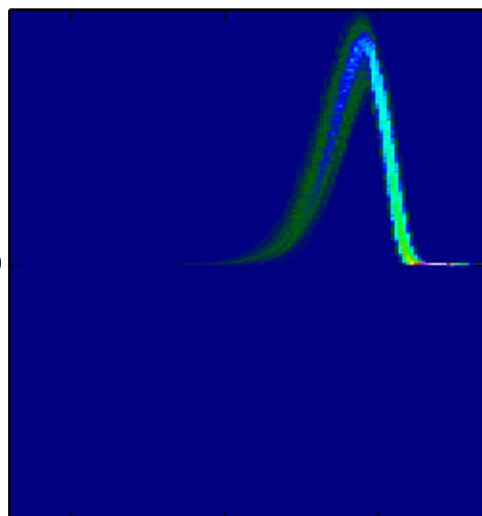
Curvature: -4400 : -3600



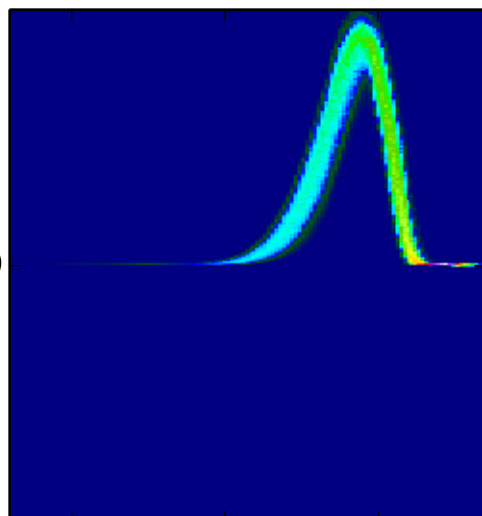
Curvature: -3600 : -2800



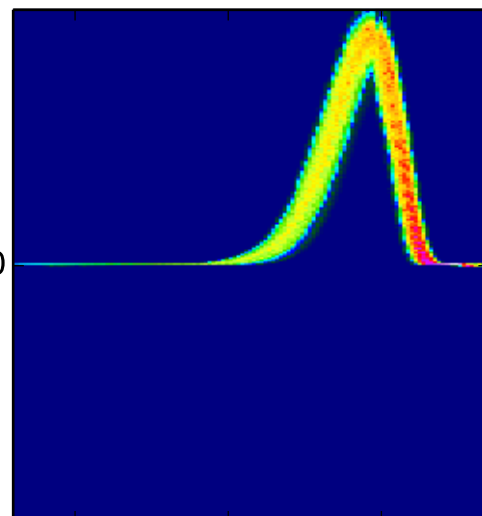
Curvature: -2800 : -2000



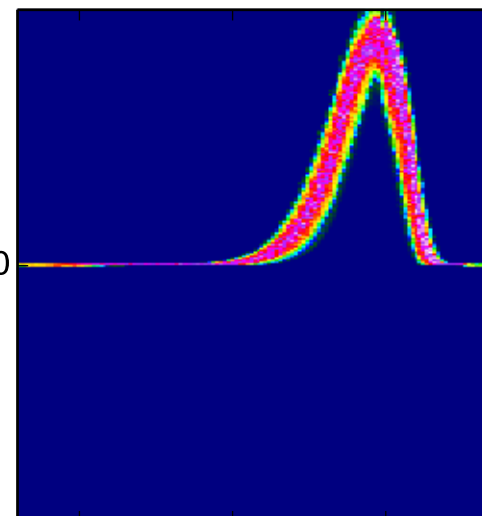
Curvature: -2000 : -1200



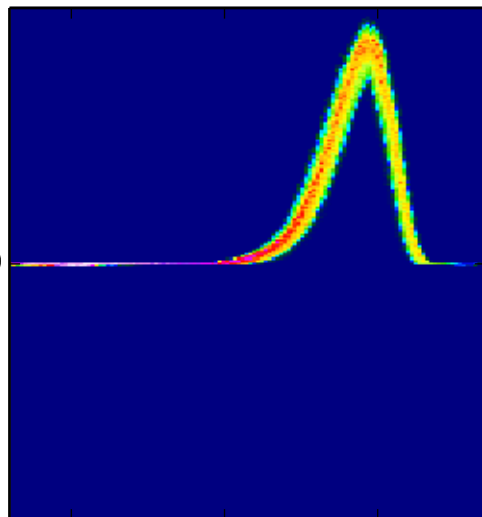
Curvature: -1200 : -400



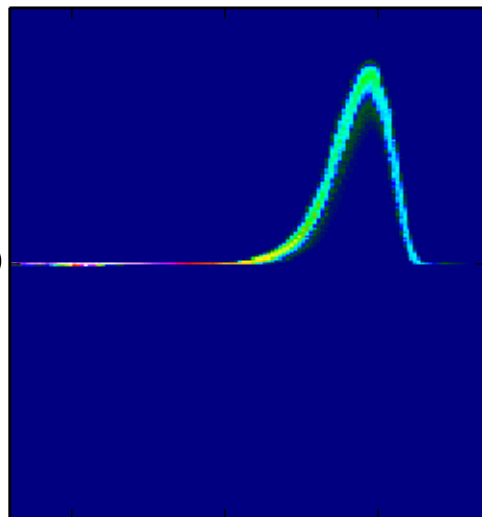
Curvature: -400 : 400



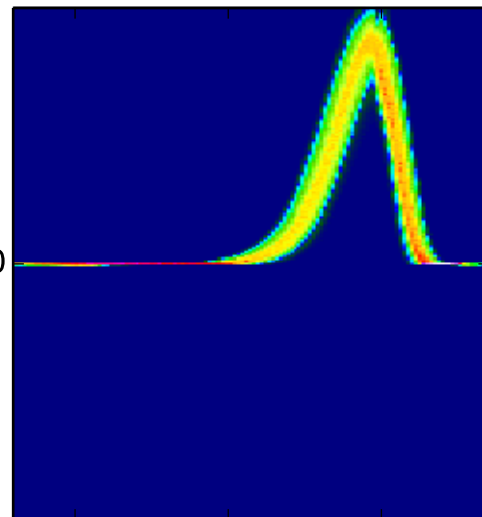
Curvature: 400 : 1200



Curvature: 1200 : 2000

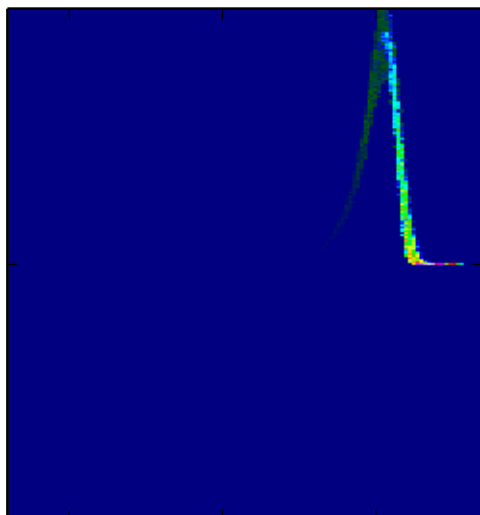


Sum

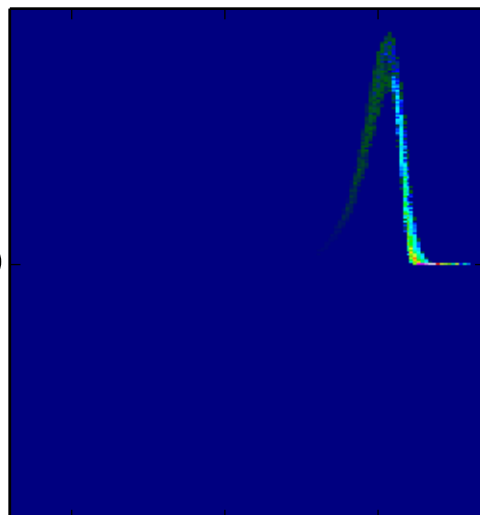


# Edge C2H $\rightleftharpoons$ HCO

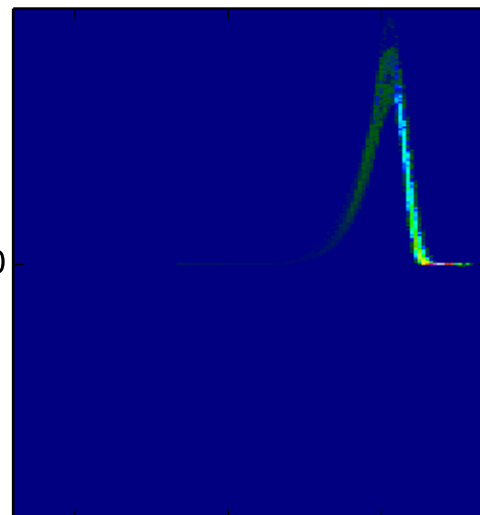
Curvature: -6000 : -5200



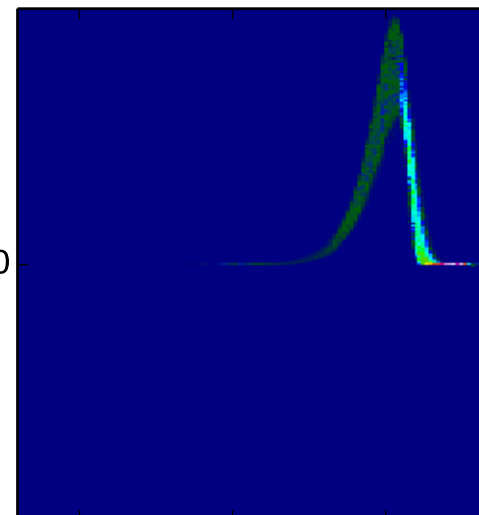
Curvature: -5200 : -4400



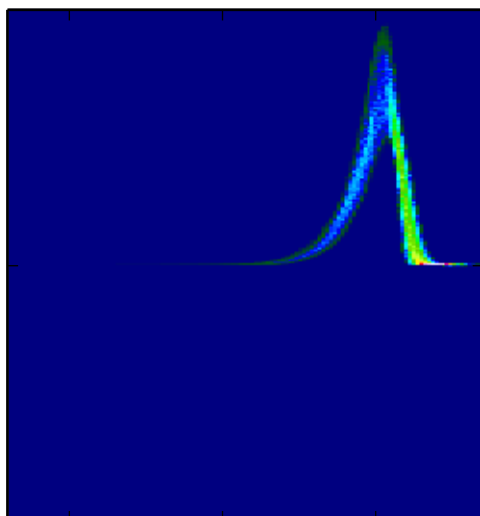
Curvature: -4400 : -3600



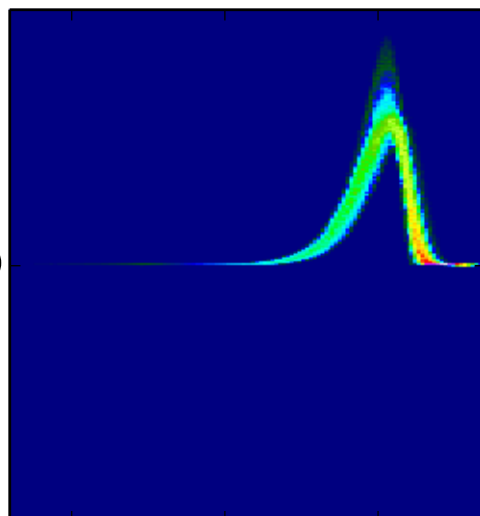
Curvature: -3600 : -2800



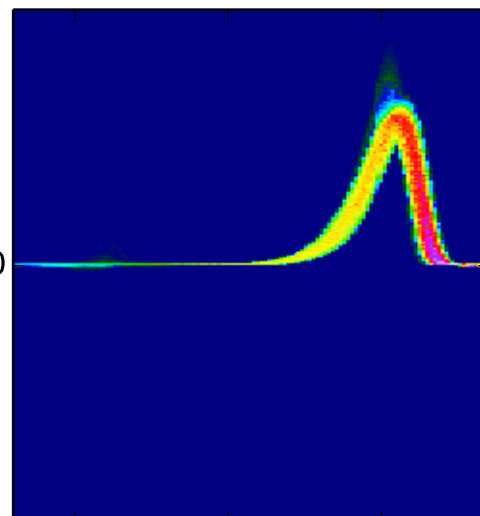
Curvature: -2800 : -2000



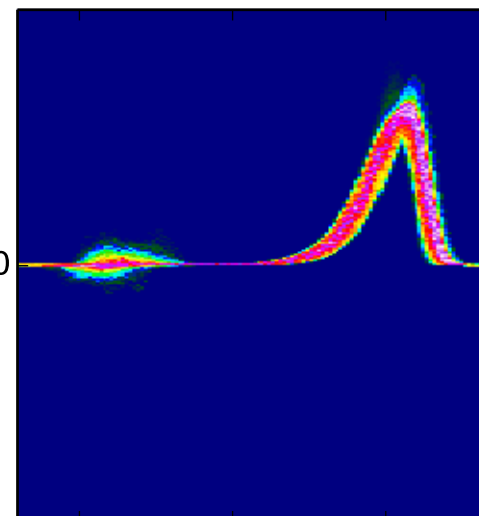
Curvature: -2000 : -1200



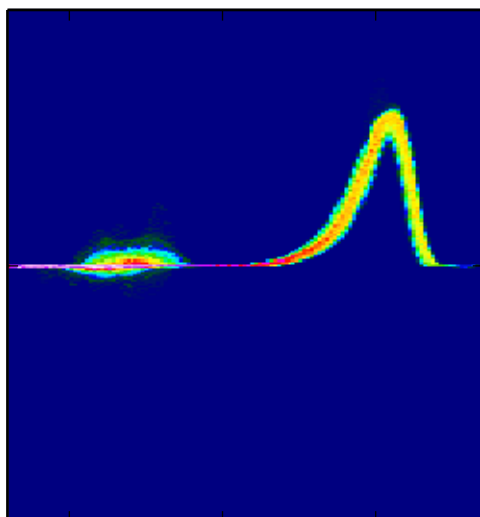
Curvature: -1200 : -400



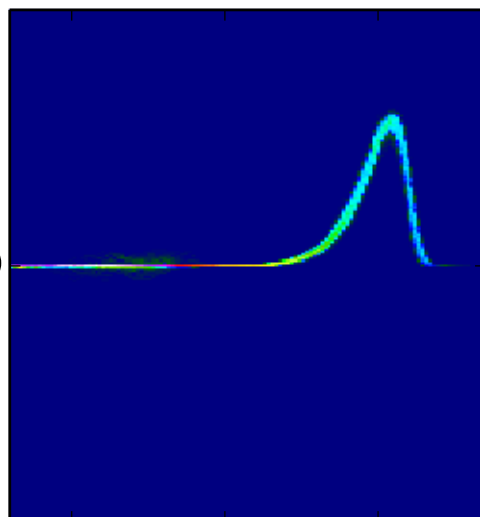
Curvature: -400 : 400



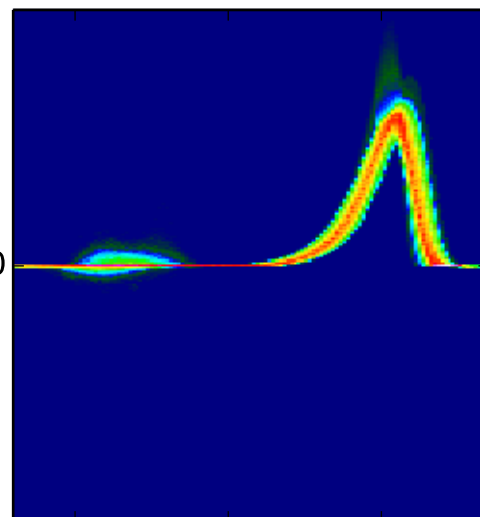
Curvature: 400 : 1200



Curvature: 1200 : 2000

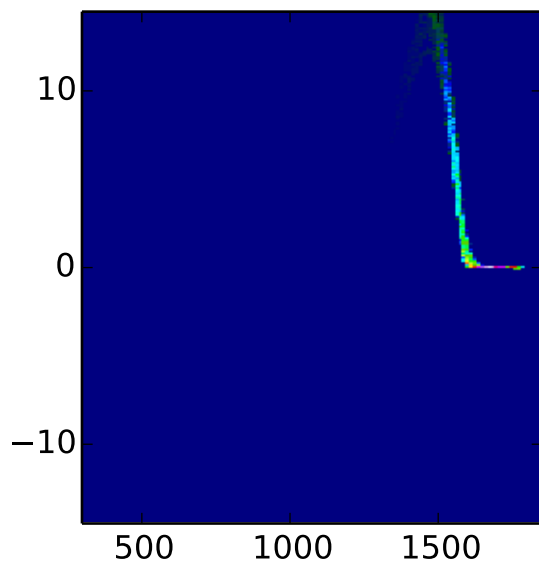


Sum

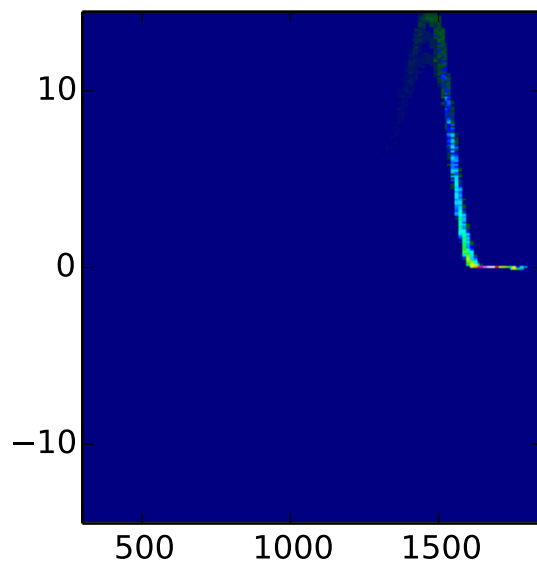


# Edge C2H3 $\rightleftharpoons$ CH2O

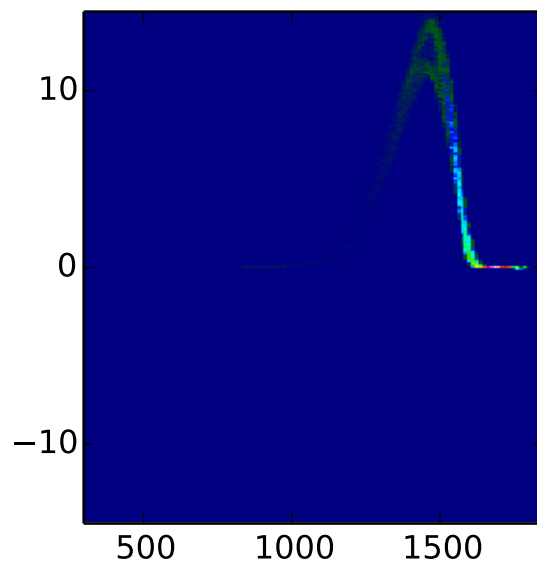
Curvature: -6000 : -5200



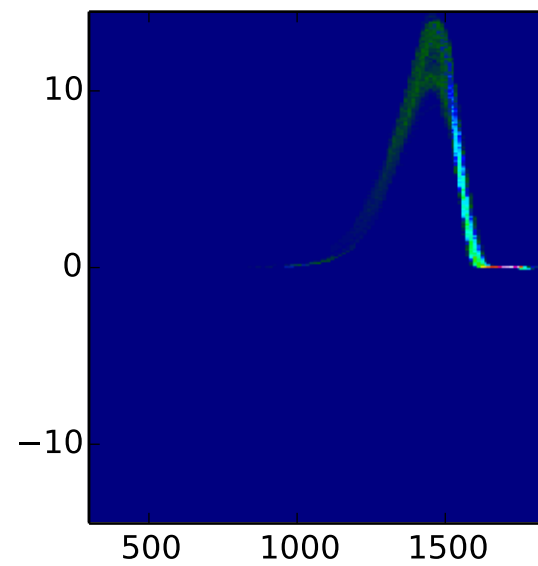
Curvature: -5200 : -4400



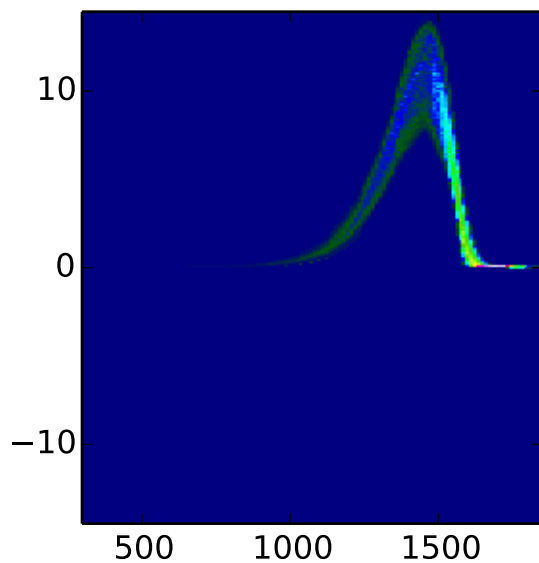
Curvature: -4400 : -3600



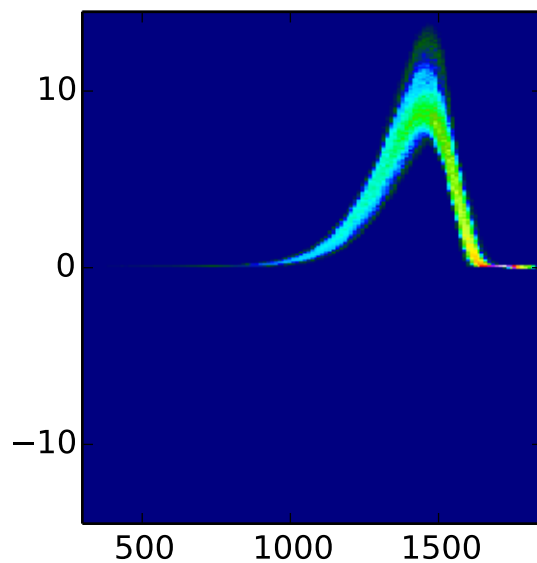
Curvature: -3600 : -2800



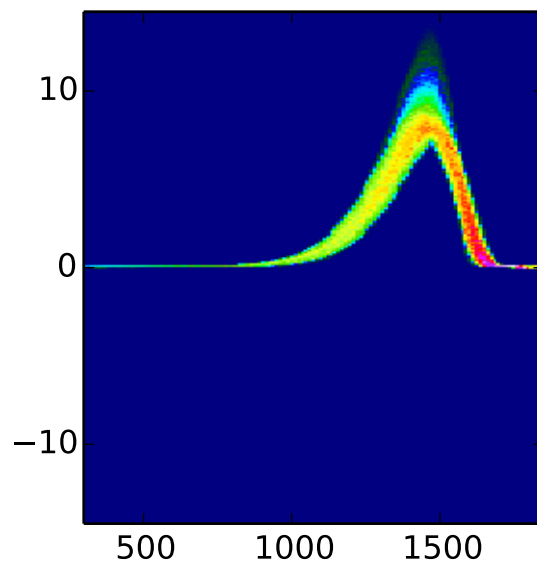
Curvature: -2800 : -2000



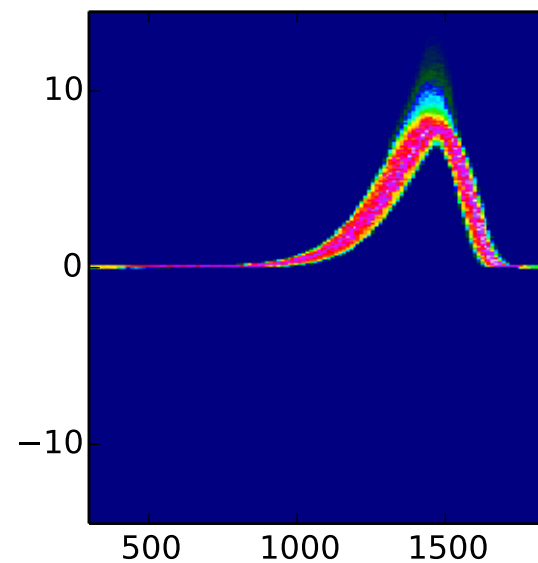
Curvature: -2000 : -1200



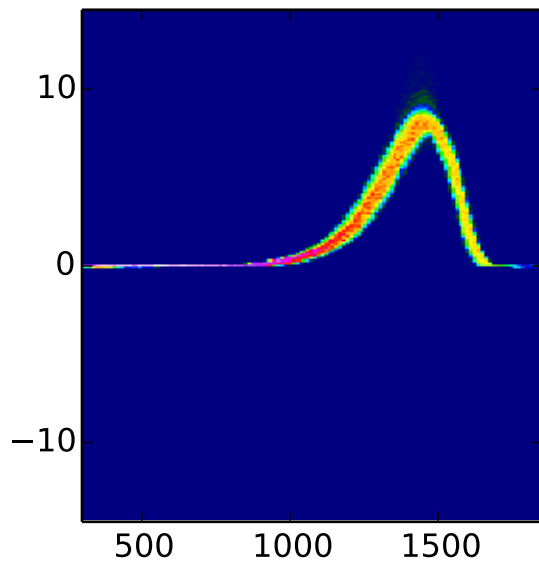
Curvature: -1200 : -400



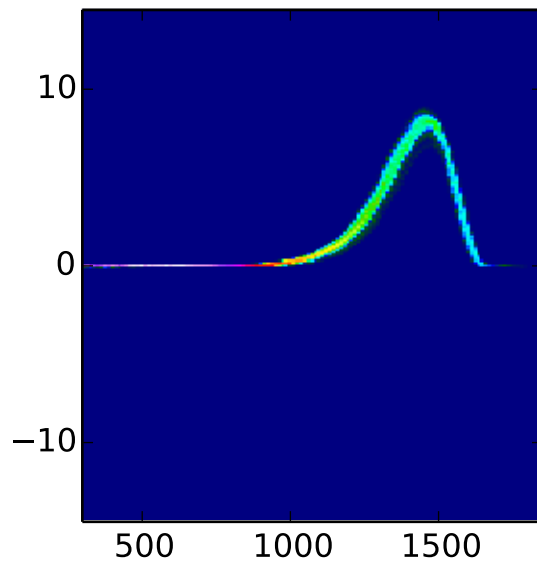
Curvature: -400 : 400



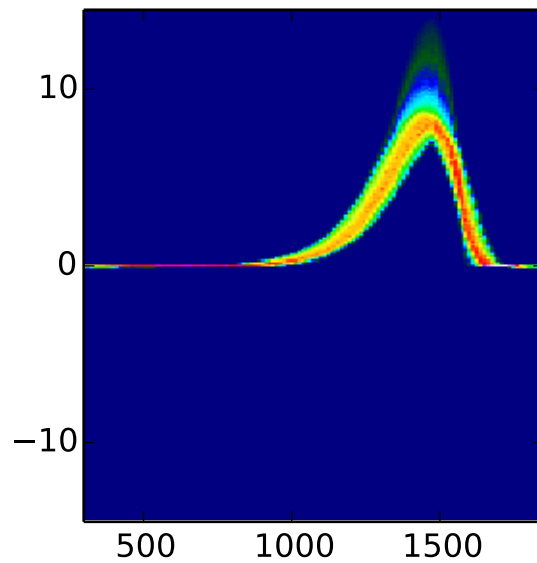
Curvature: 400 : 1200



Curvature: 1200 : 2000

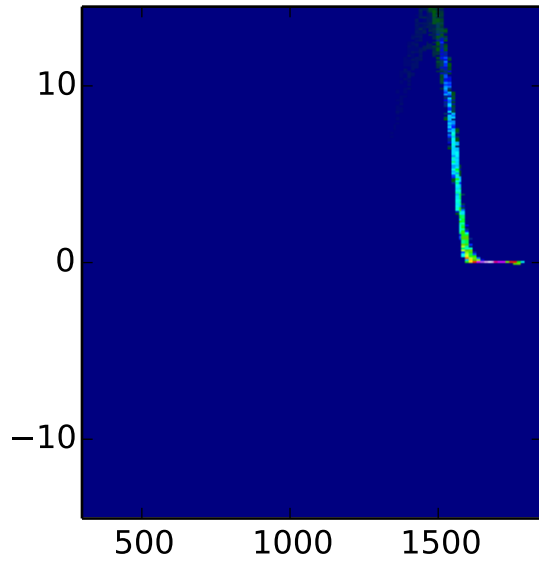


Sum

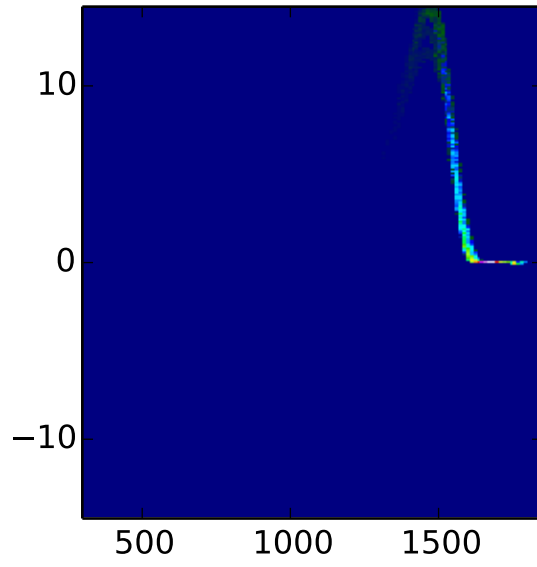


# Edge C2H3 $\rightleftharpoons$ HCO

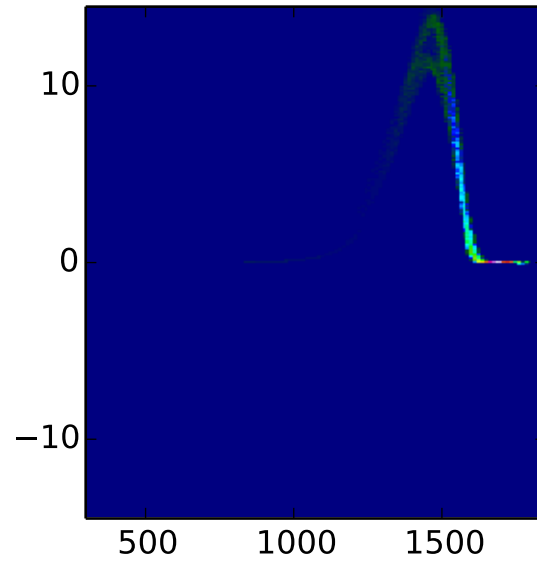
Curvature: -6000 : -5200



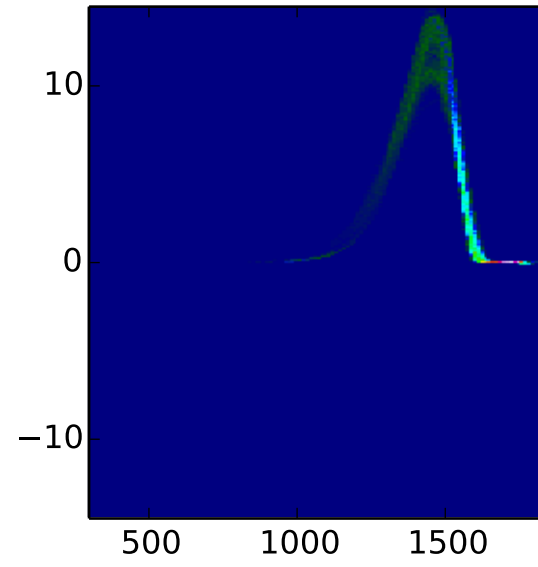
Curvature: -5200 : -4400



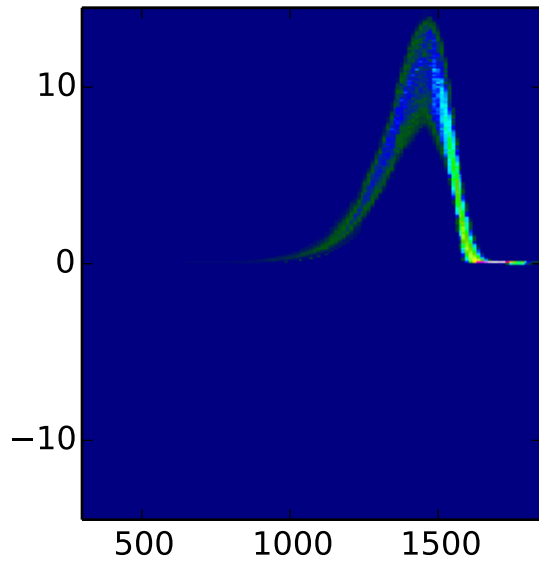
Curvature: -4400 : -3600



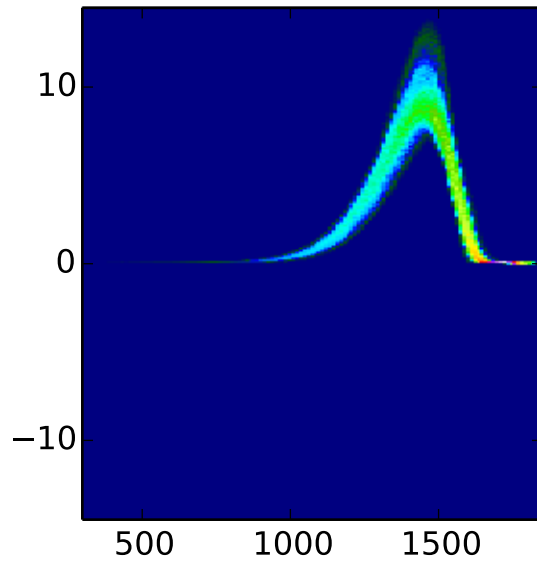
Curvature: -3600 : -2800



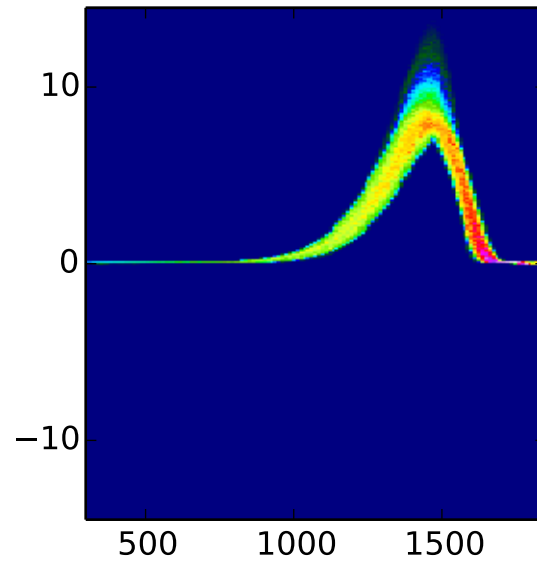
Curvature: -2800 : -2000



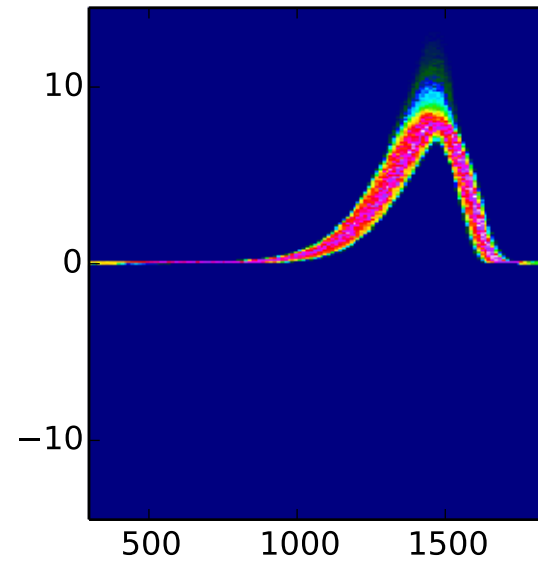
Curvature: -2000 : -1200



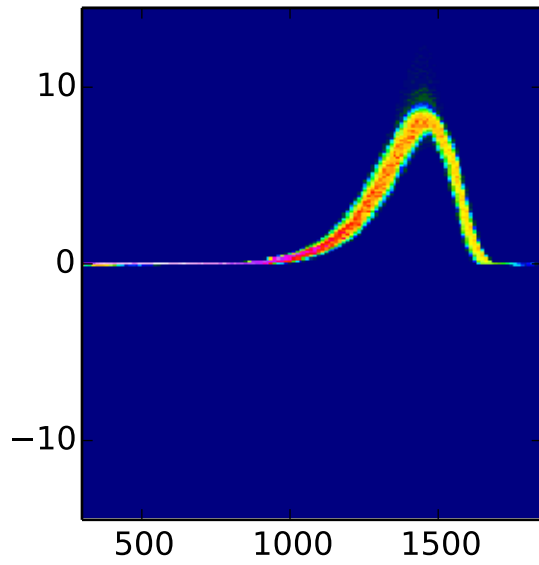
Curvature: -1200 : -400



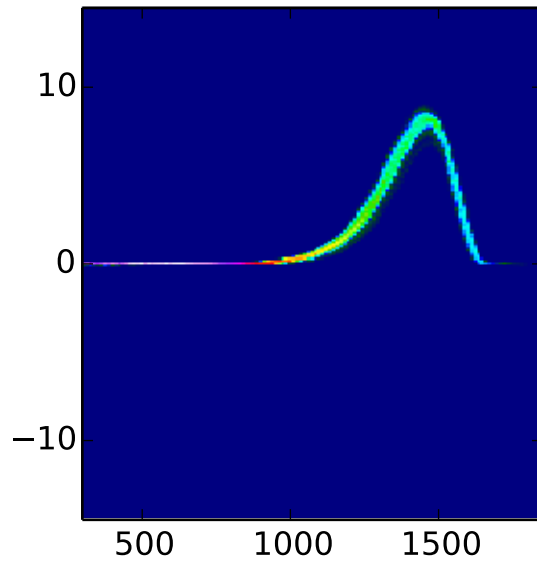
Curvature: -400 : 400



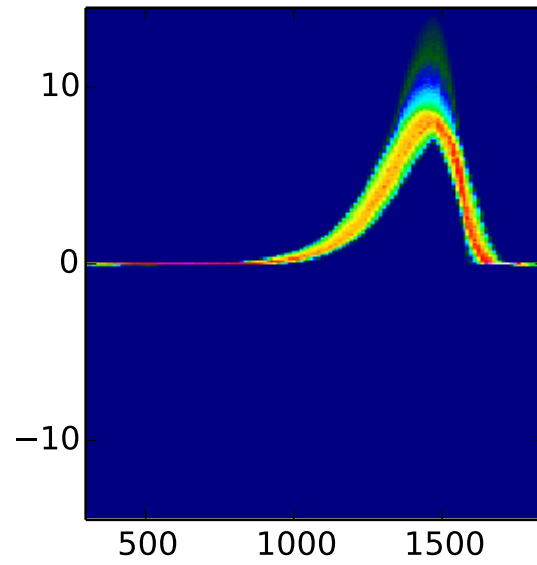
Curvature: 400 : 1200



Curvature: 1200 : 2000

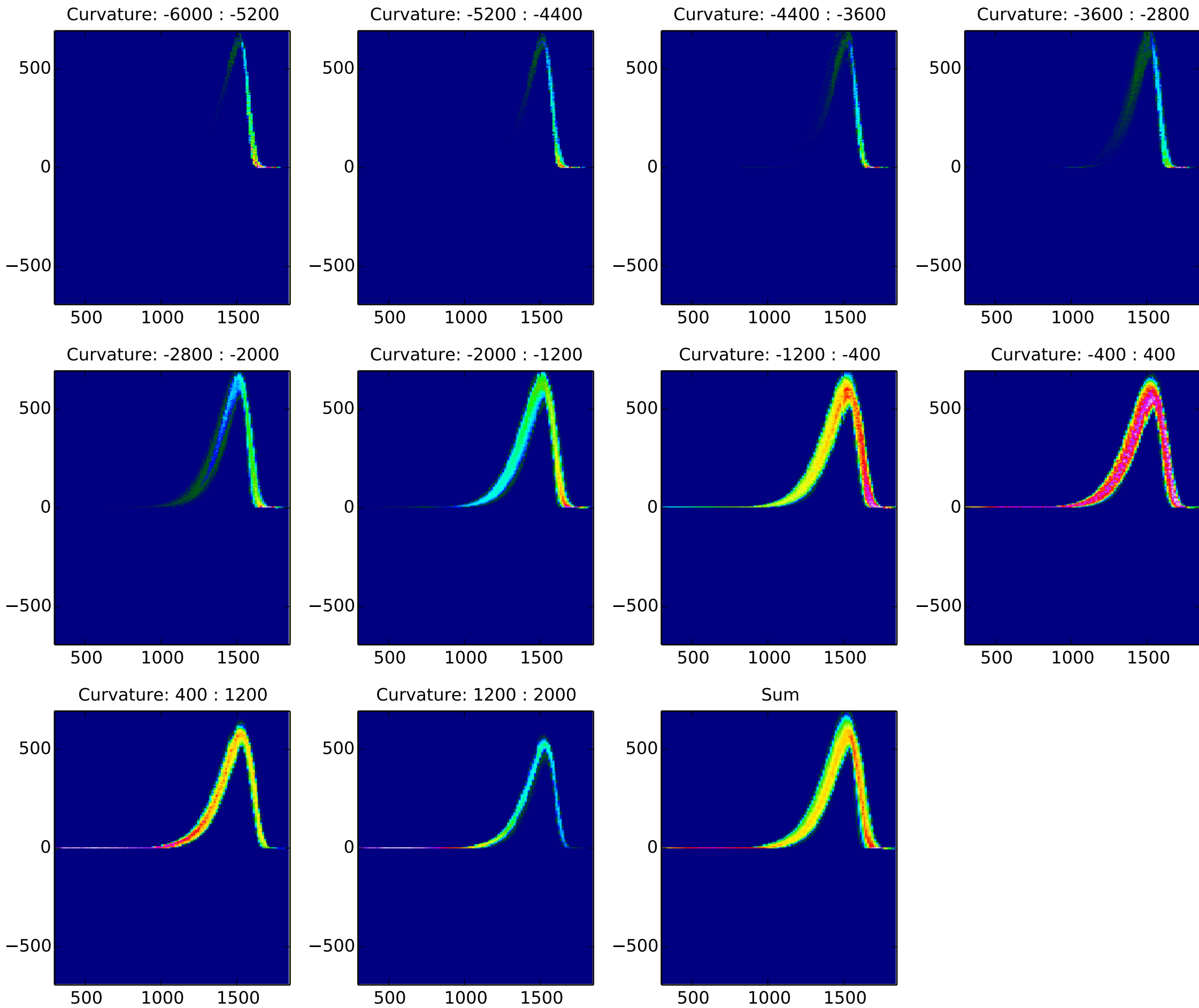


Sum



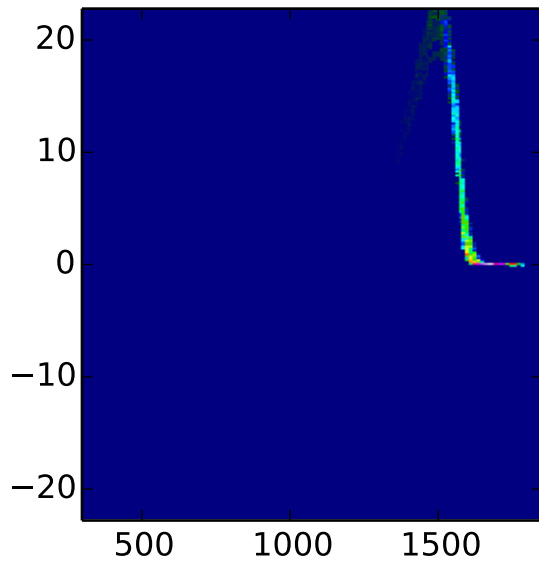


# Edge CH3 $\rightleftharpoons$ CO

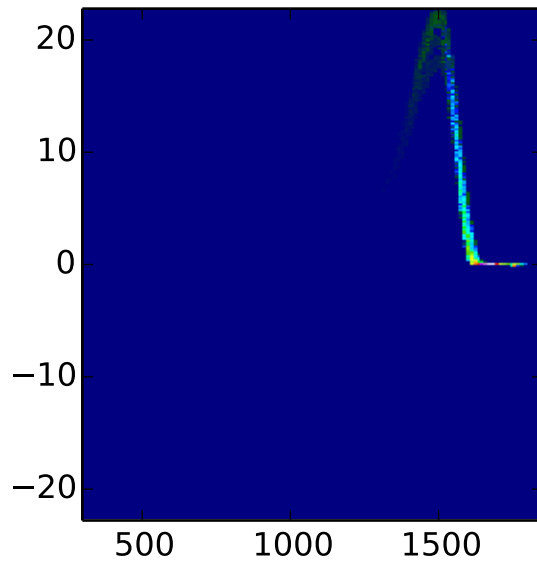


# Edge C2H4 $\rightleftharpoons$ CH2CHO

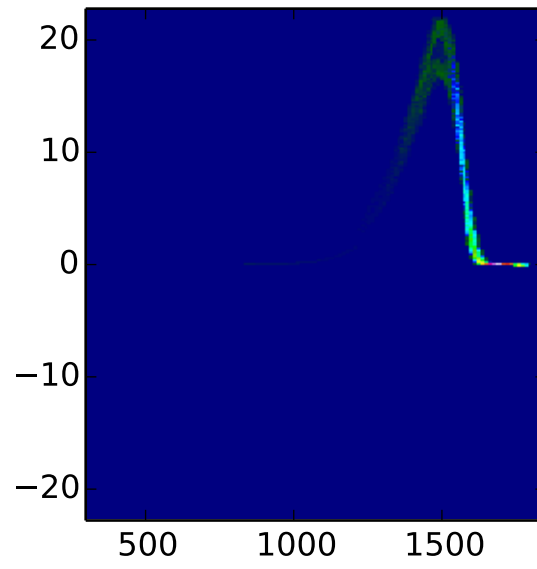
Curvature: -6000 : -5200



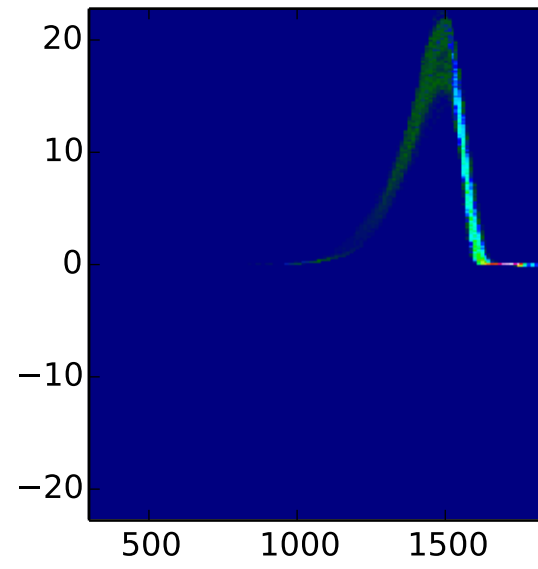
Curvature: -5200 : -4400



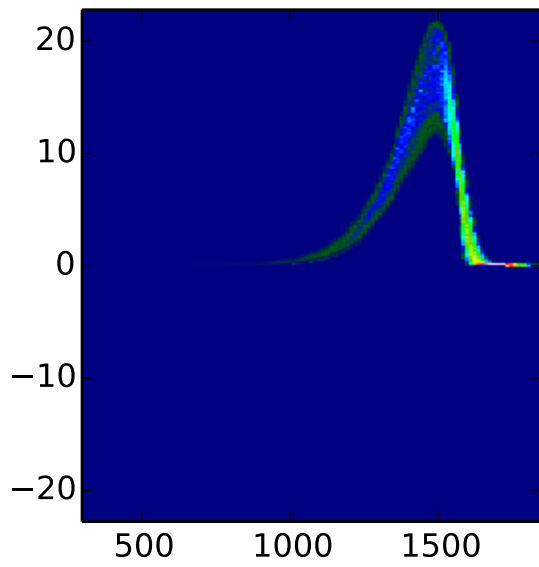
Curvature: -4400 : -3600



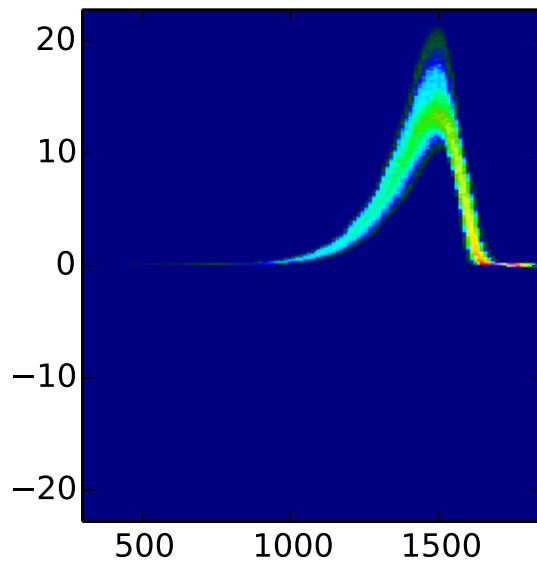
Curvature: -3600 : -2800



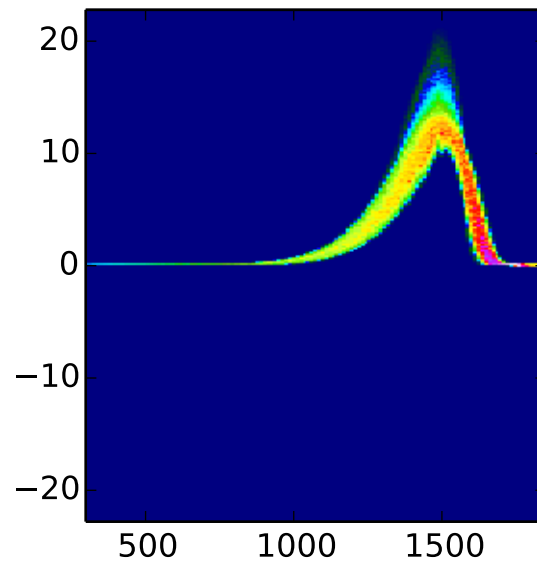
Curvature: -2800 : -2000



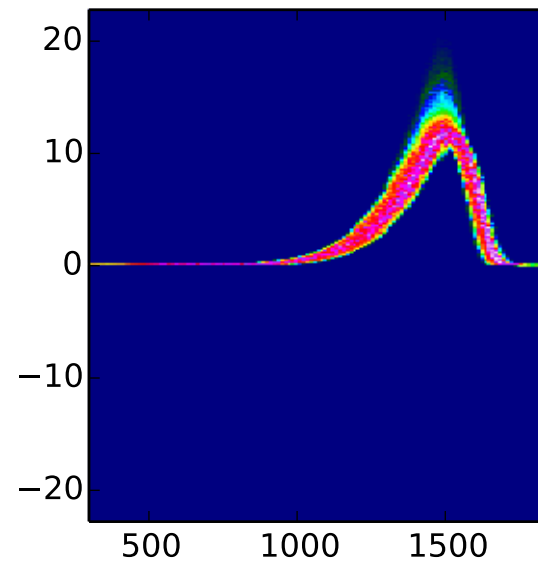
Curvature: -2000 : -1200



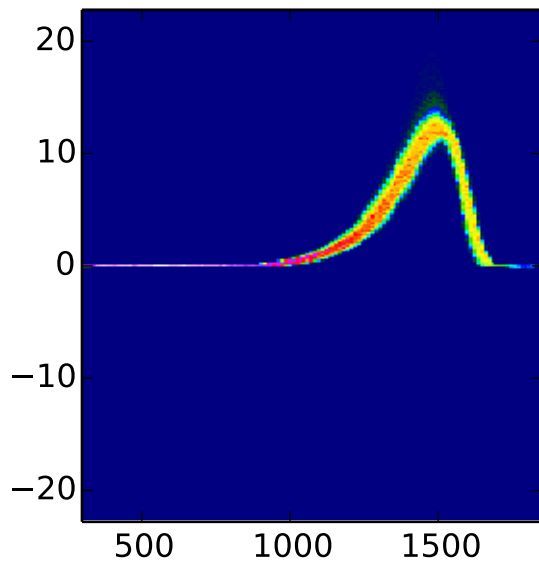
Curvature: -1200 : -400



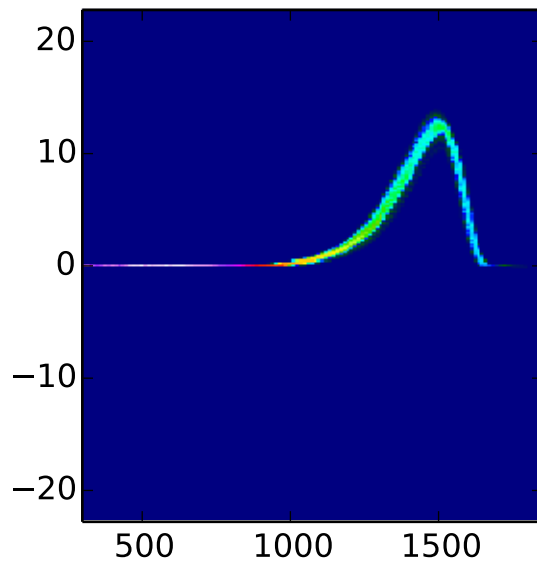
Curvature: -400 : 400



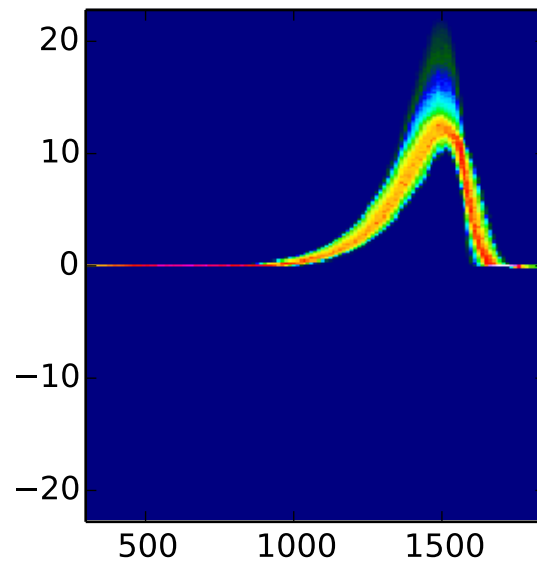
Curvature: 400 : 1200



Curvature: 1200 : 2000

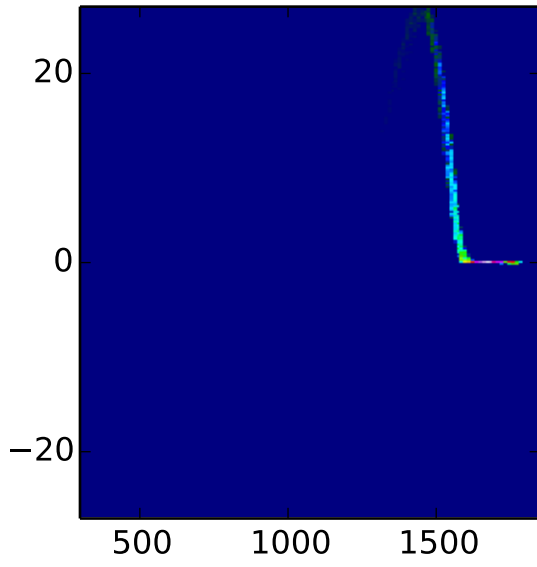


Sum

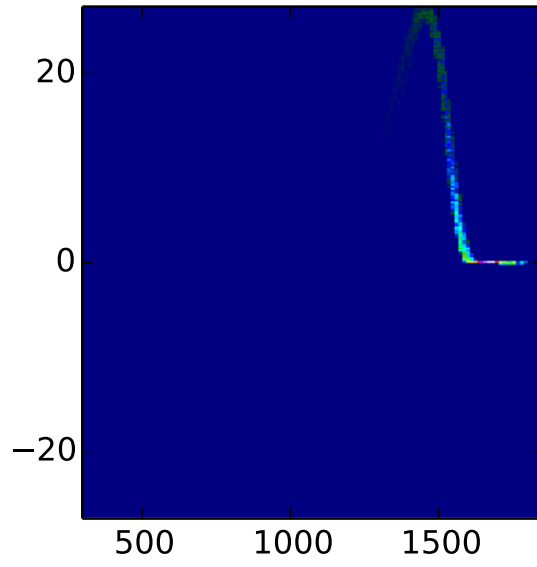


# Edge C2H5 $\rightleftharpoons$ CH3CHO

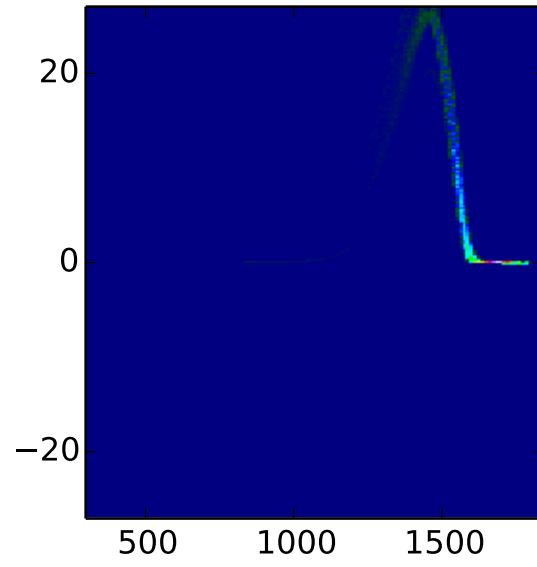
Curvature: -6000 : -5200



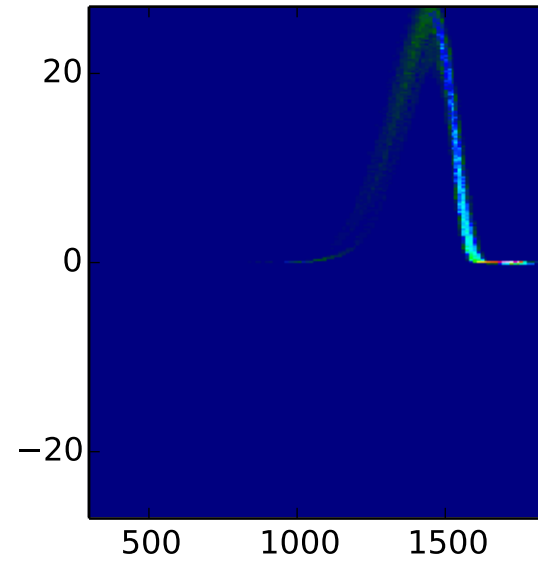
Curvature: -5200 : -4400



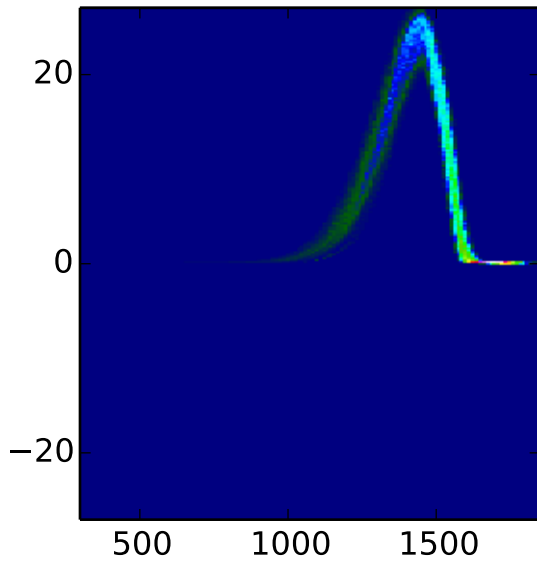
Curvature: -4400 : -3600



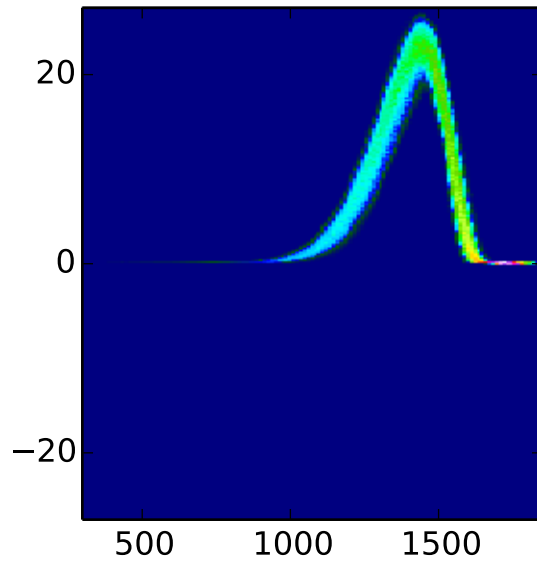
Curvature: -3600 : -2800



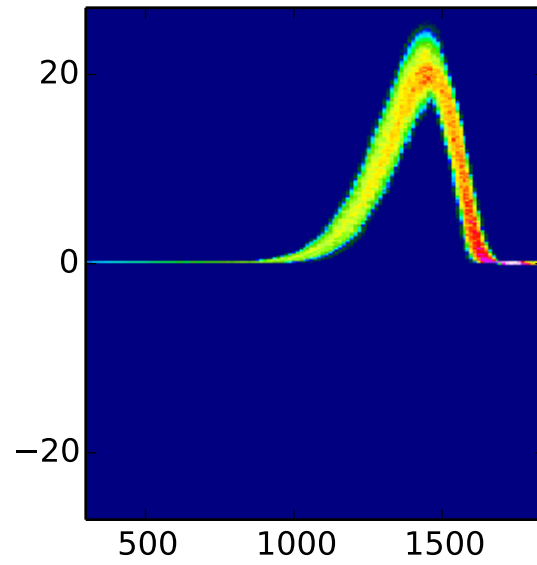
Curvature: -2800 : -2000



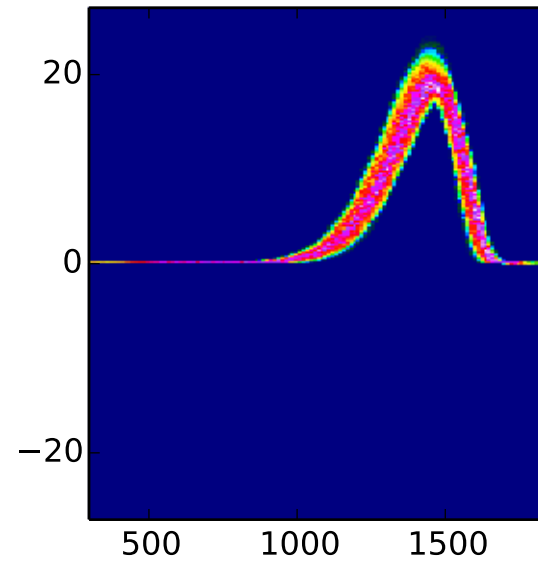
Curvature: -2000 : -1200



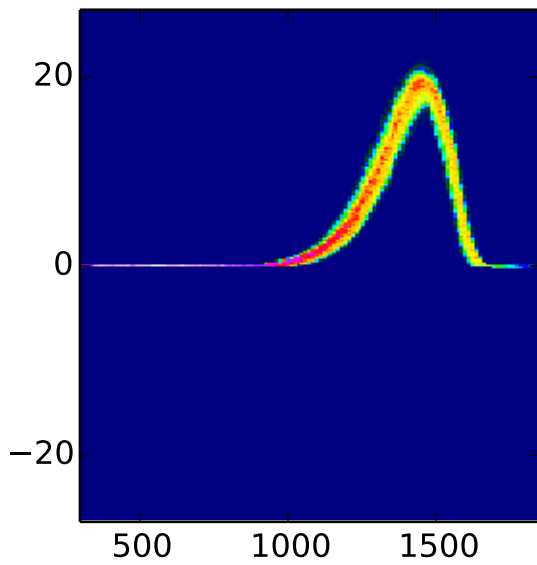
Curvature: -1200 : -400



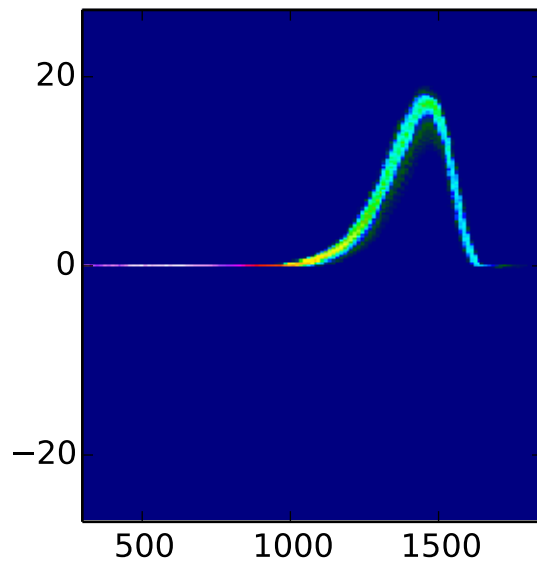
Curvature: -400 : 400



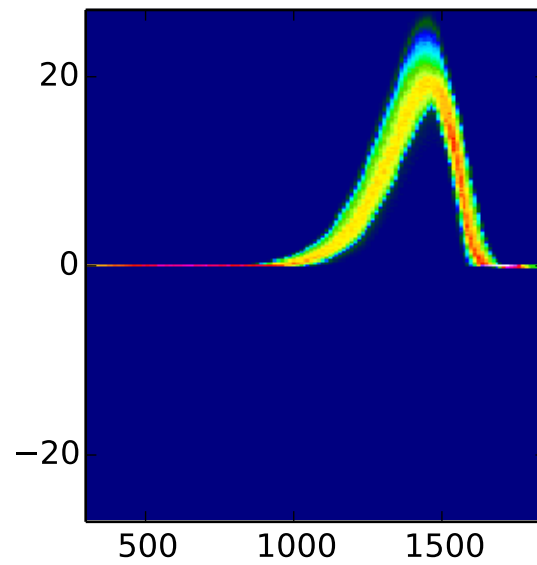
Curvature: 400 : 1200



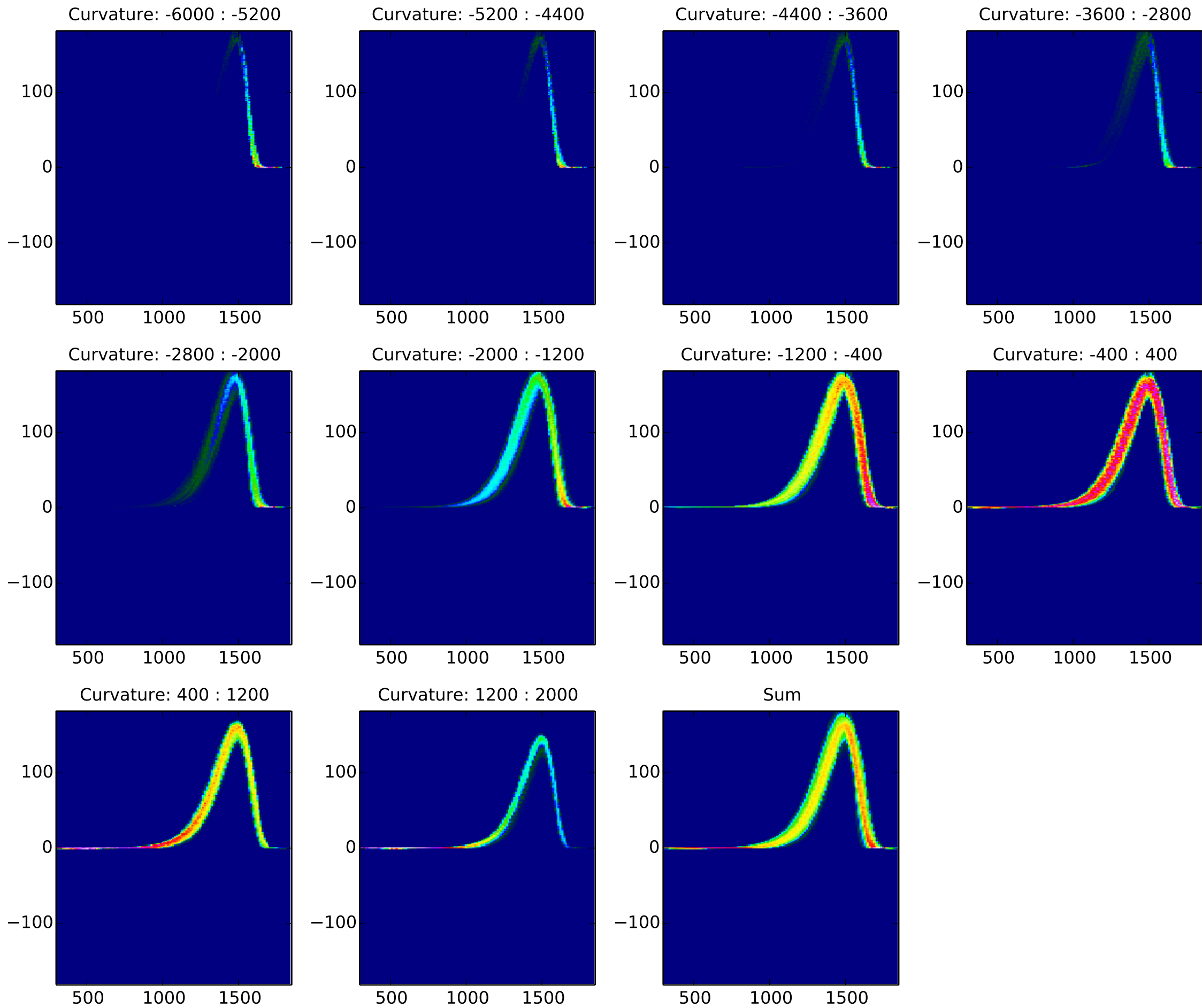
Curvature: 1200 : 2000



Sum

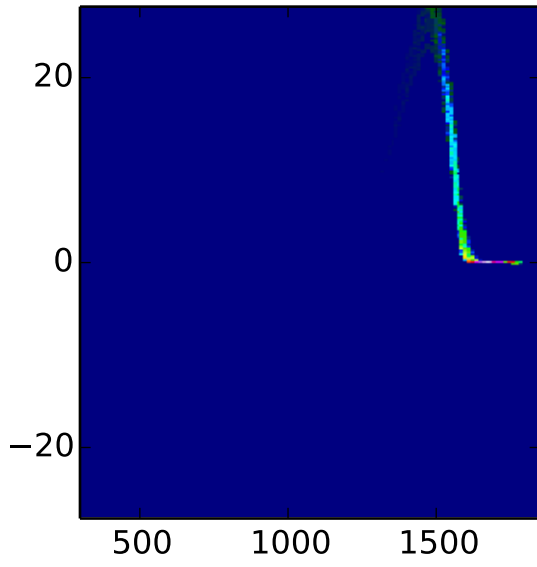


# Edge CH2 $\rightleftharpoons$ CO2

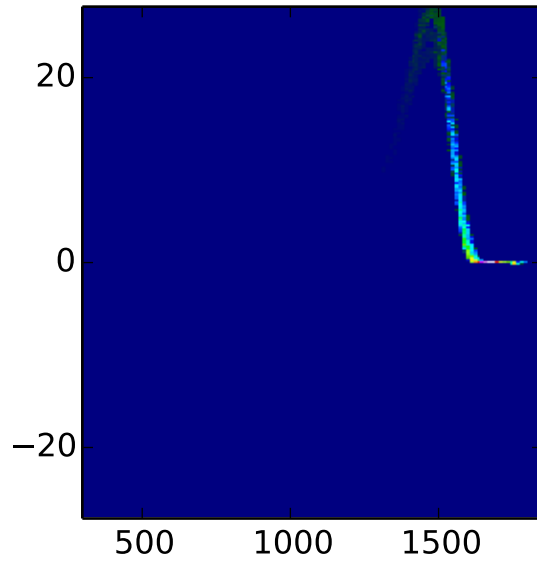


# Edge C2H3 $\rightleftharpoons$ CH2CHO

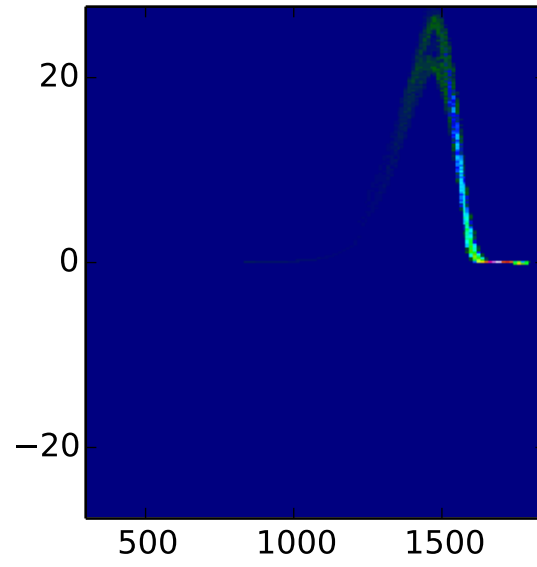
Curvature: -6000 : -5200



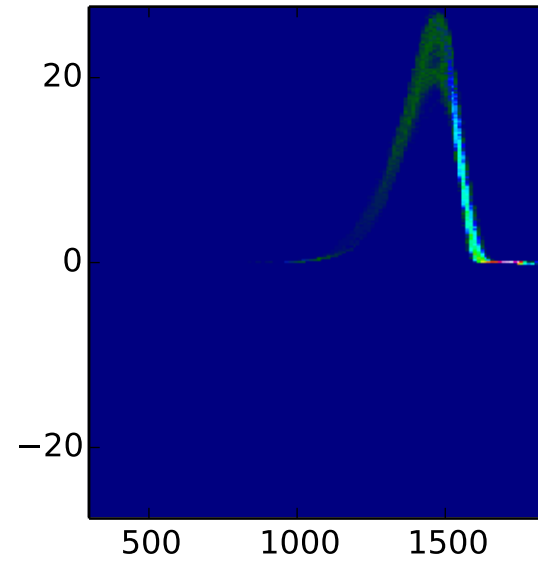
Curvature: -5200 : -4400



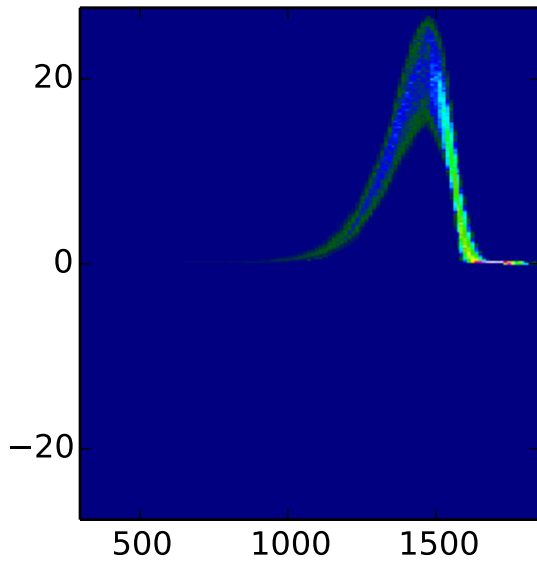
Curvature: -4400 : -3600



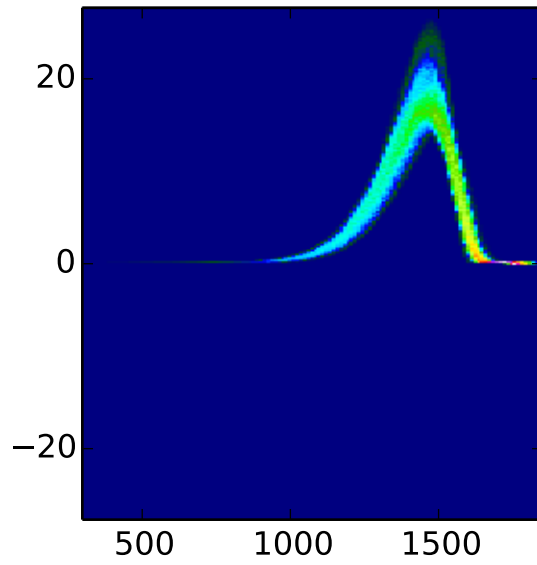
Curvature: -3600 : -2800



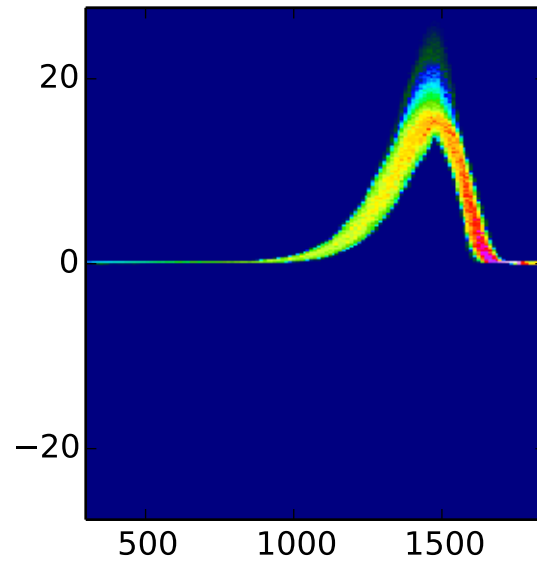
Curvature: -2800 : -2000



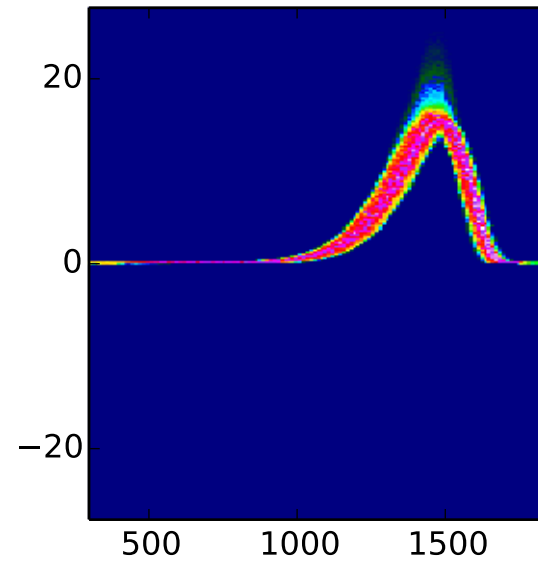
Curvature: -2000 : -1200



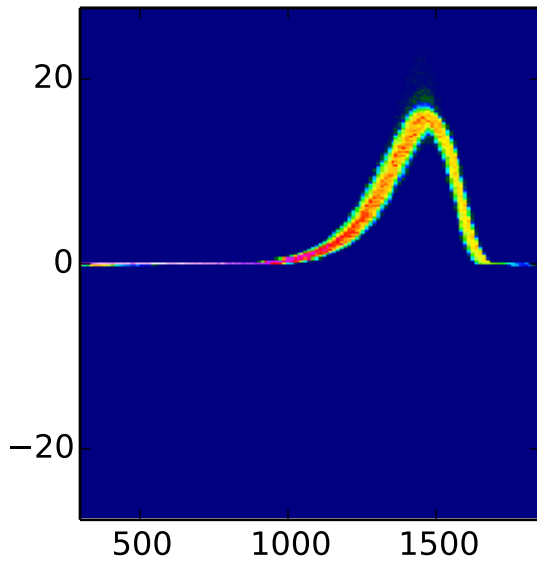
Curvature: -1200 : -400



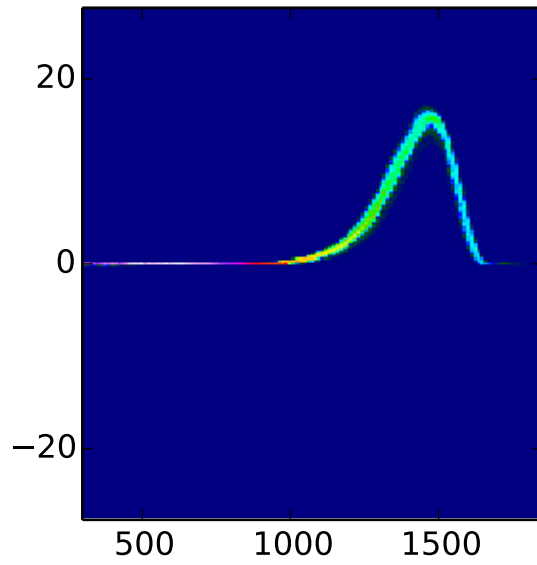
Curvature: -400 : 400



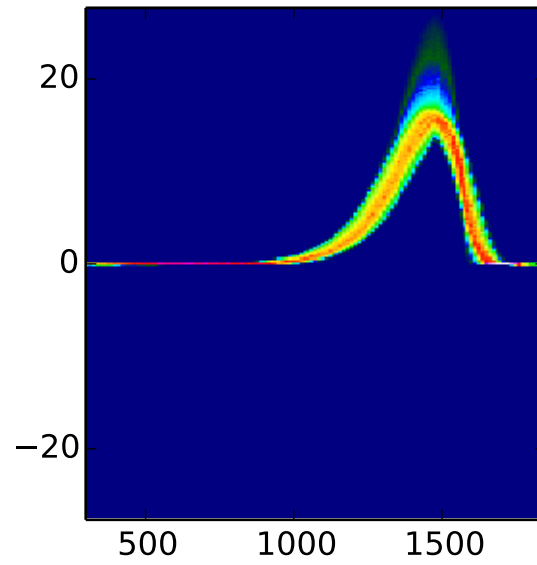
Curvature: 400 : 1200



Curvature: 1200 : 2000

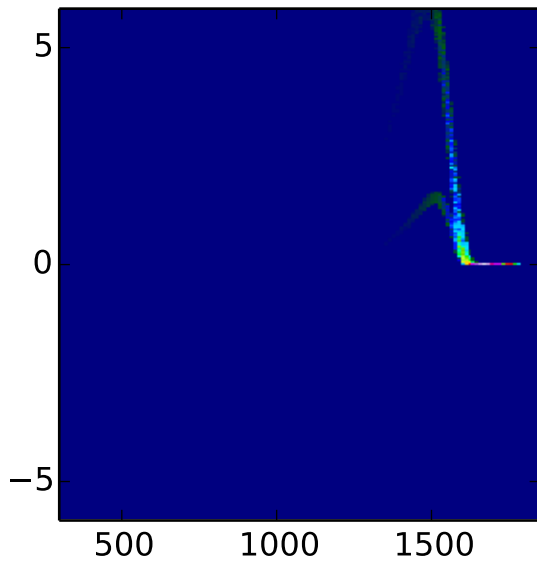


Sum

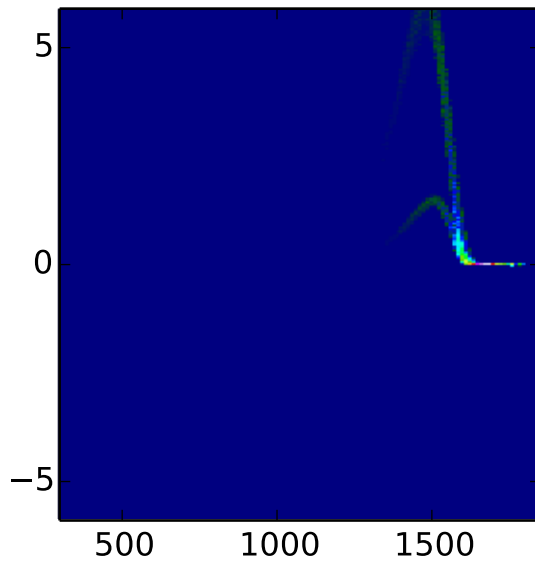


# Edge $\text{CH}_3\text{CHO} \rightleftharpoons \text{CH}_2\text{CHO}$

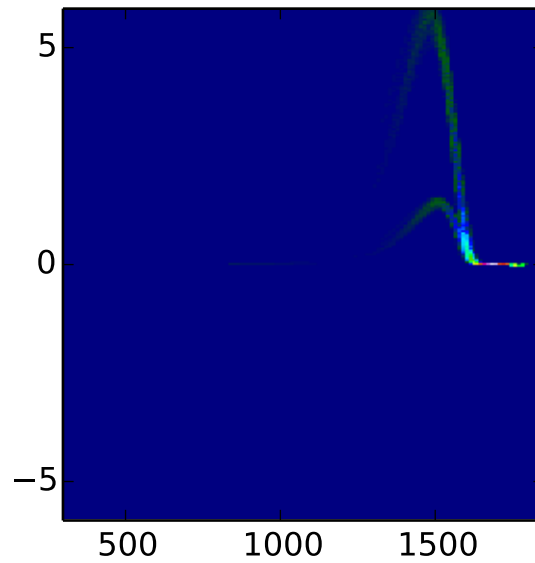
Curvature: -6000 : -5200



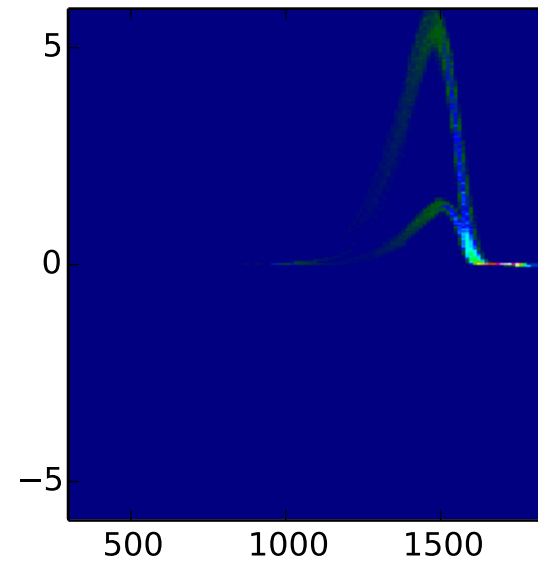
Curvature: -5200 : -4400



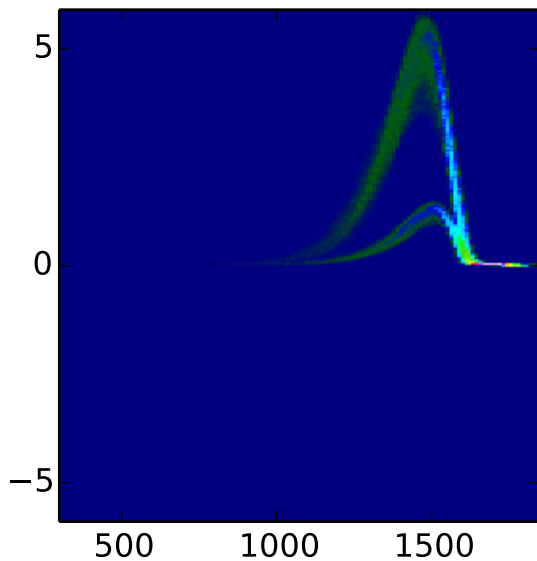
Curvature: -4400 : -3600



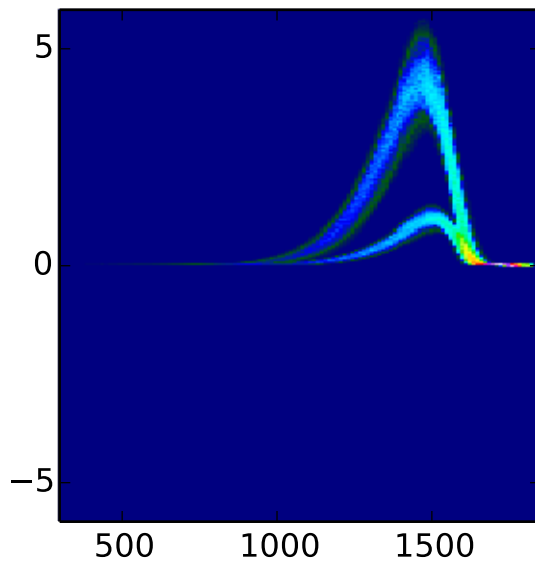
Curvature: -3600 : -2800



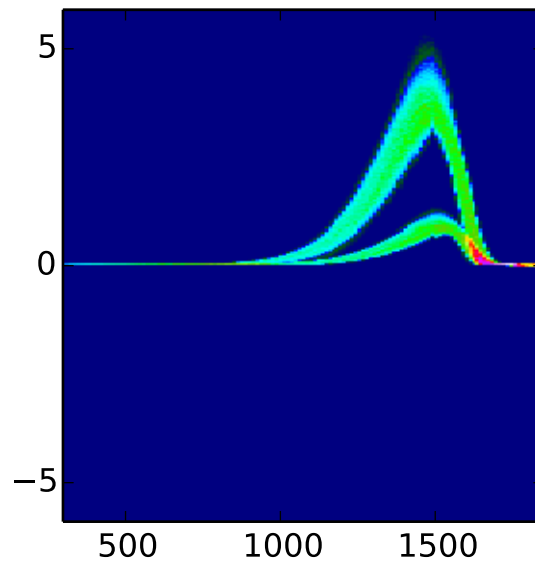
Curvature: -2800 : -2000



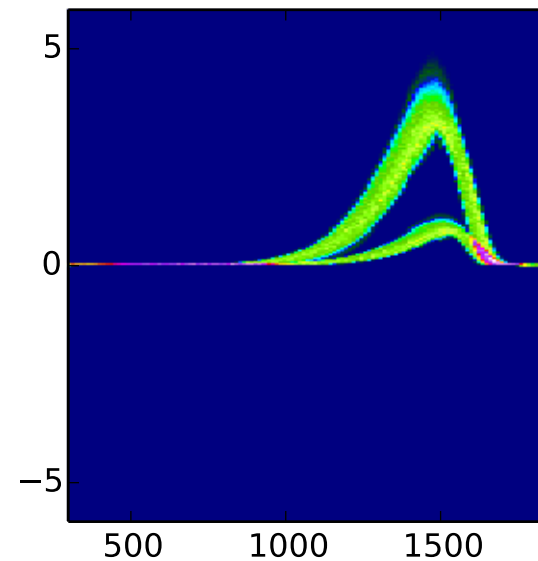
Curvature: -2000 : -1200



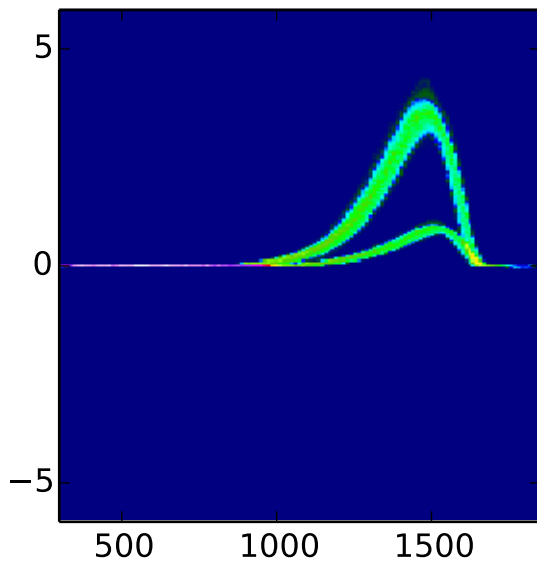
Curvature: -1200 : -400



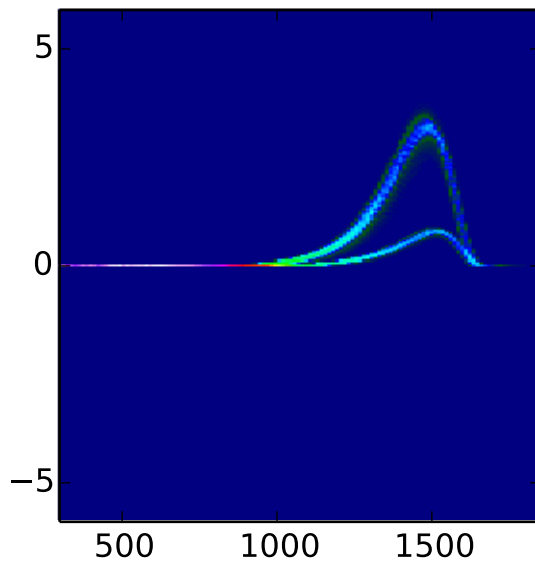
Curvature: -400 : 400



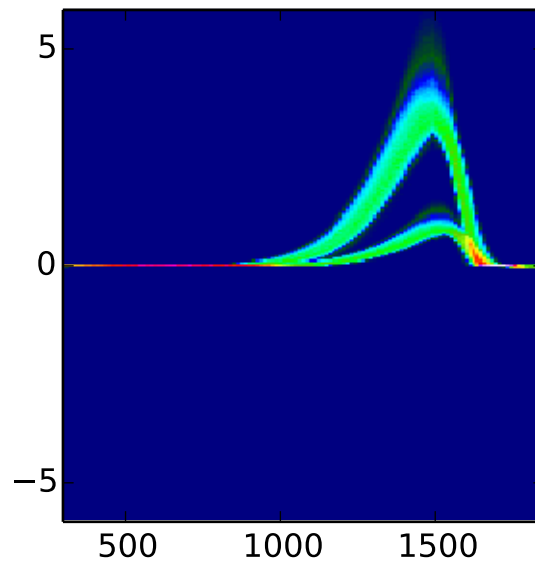
Curvature: 400 : 1200



Curvature: 1200 : 2000

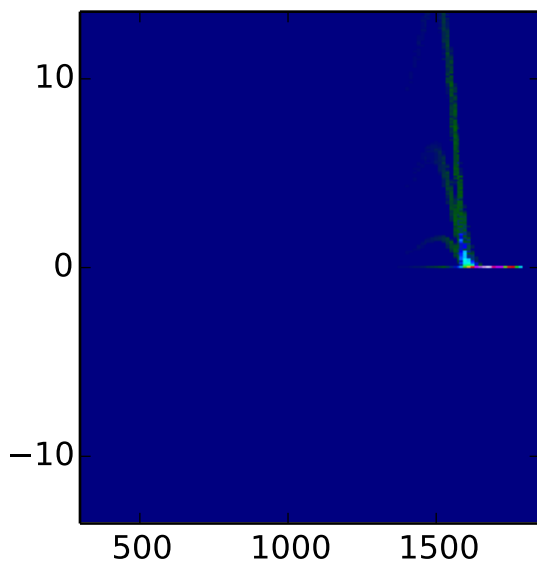


Sum

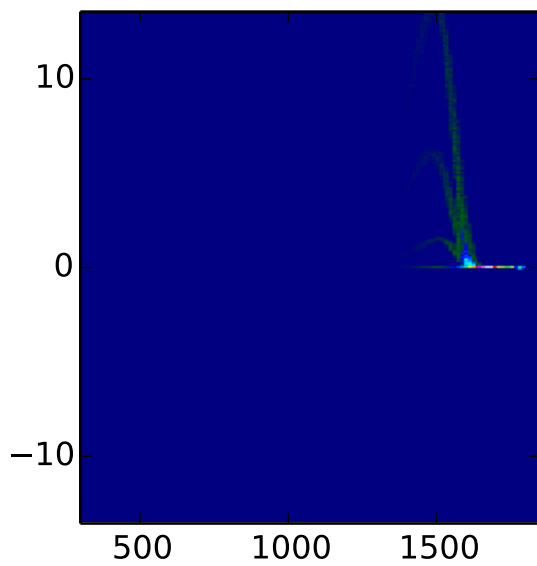


# Edge CH<sub>3</sub>CHO $\rightleftharpoons$ CH<sub>3</sub>

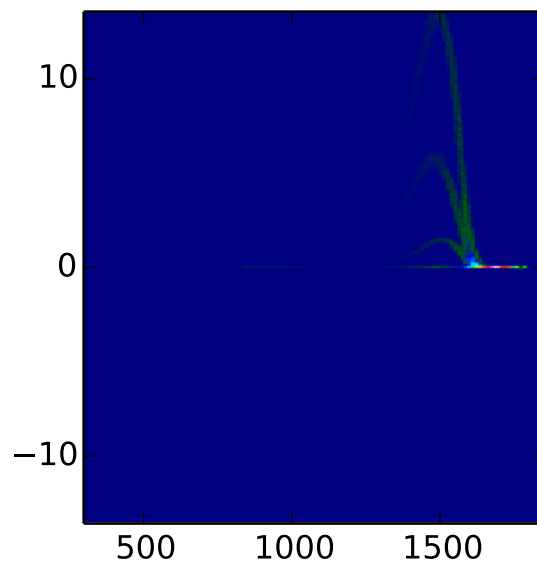
Curvature: -6000 : -5200



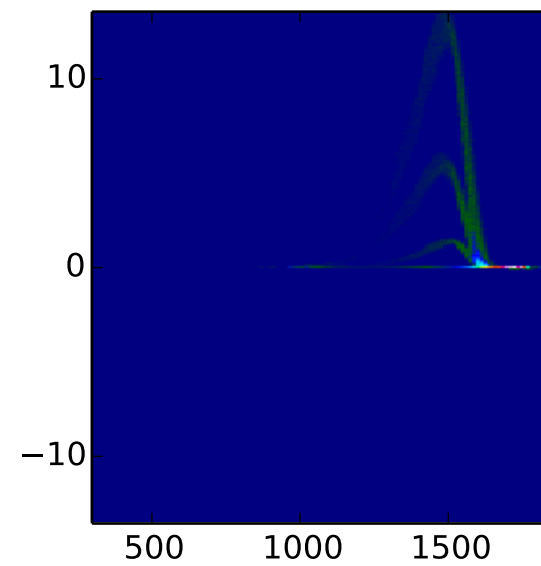
Curvature: -5200 : -4400



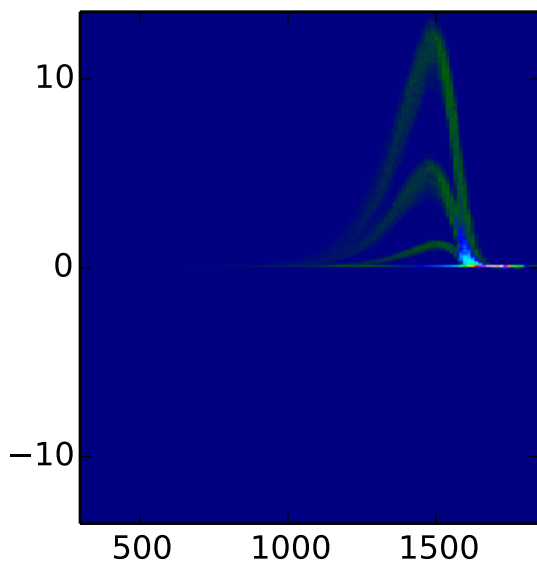
Curvature: -4400 : -3600



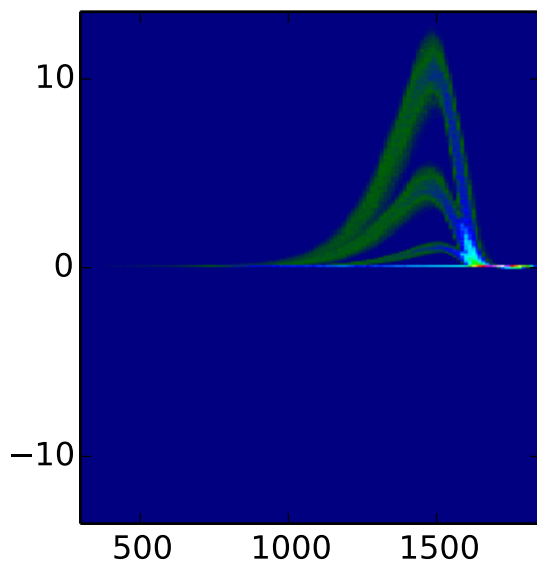
Curvature: -3600 : -2800



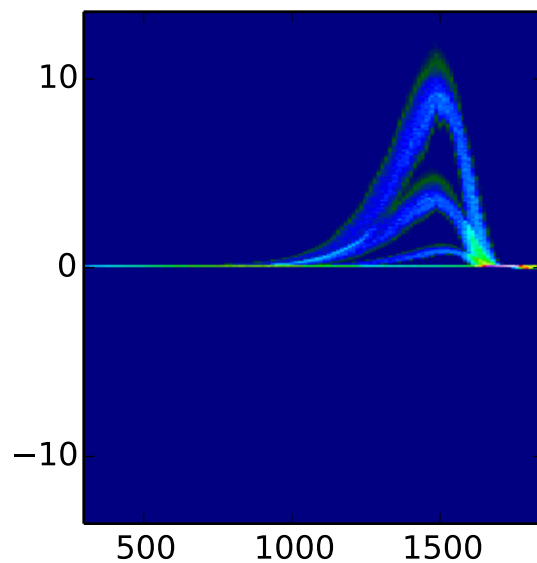
Curvature: -2800 : -2000



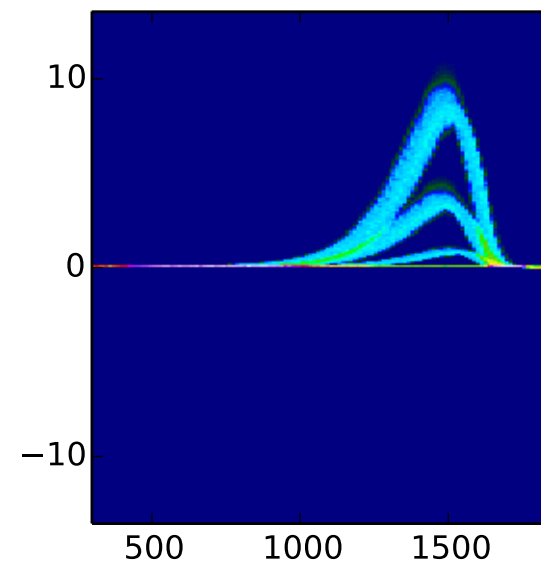
Curvature: -2000 : -1200



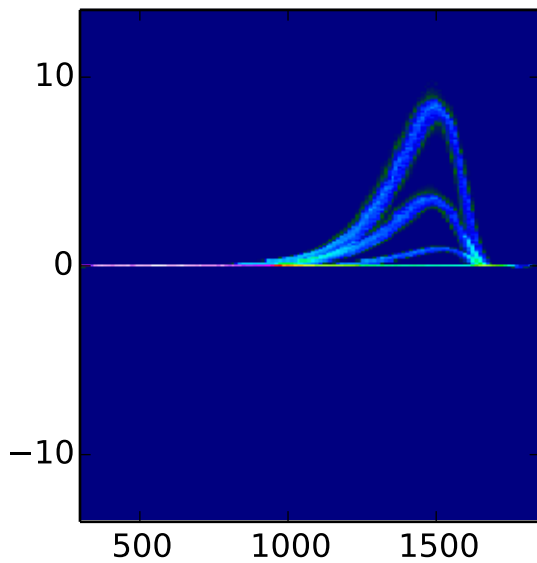
Curvature: -1200 : -400



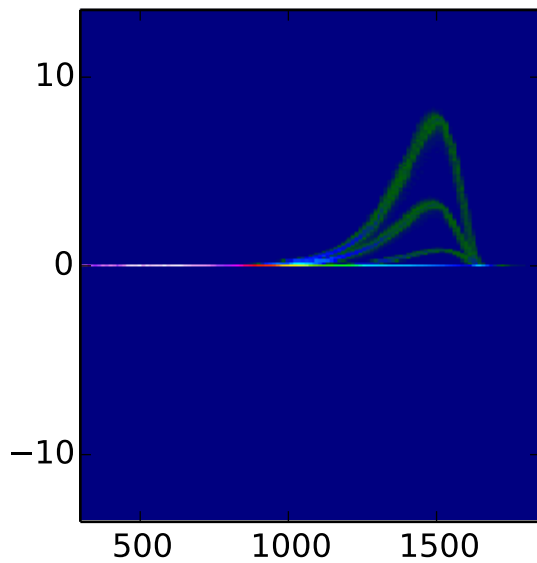
Curvature: -400 : 400



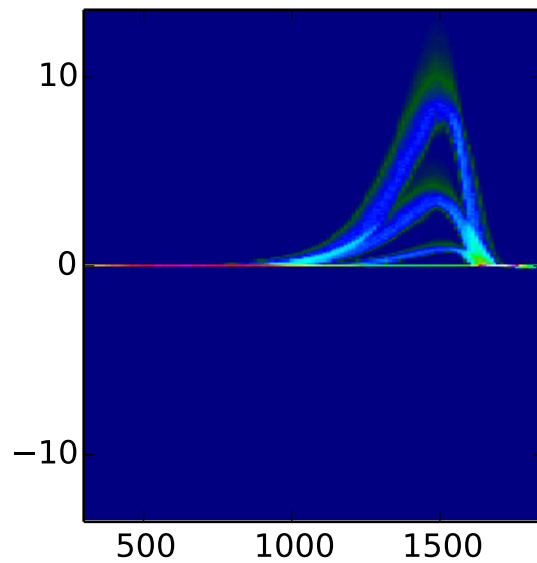
Curvature: 400 : 1200



Curvature: 1200 : 2000

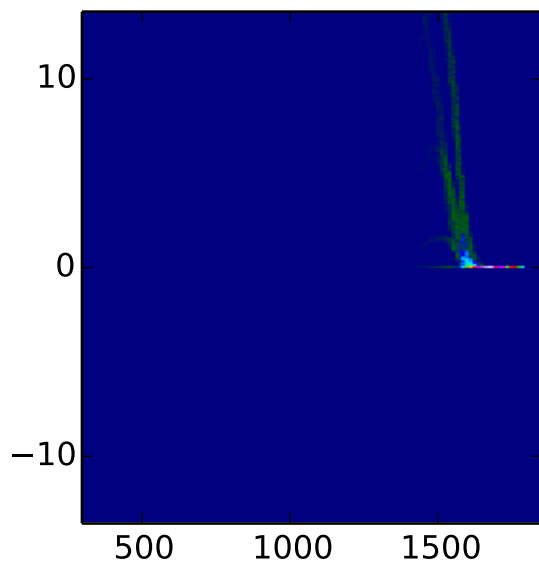


Sum

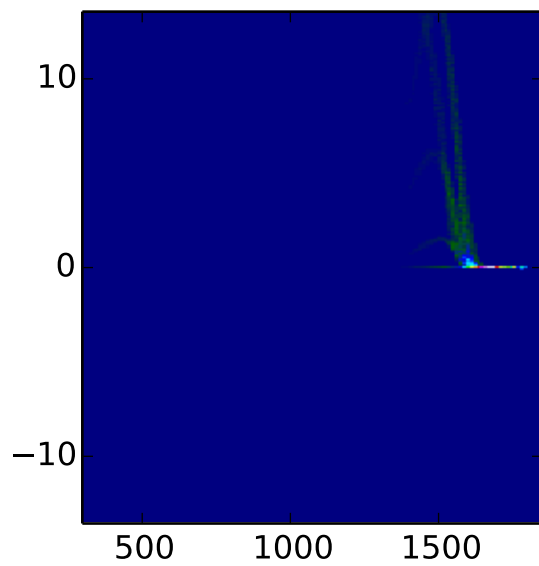


# Edge CH<sub>3</sub>CHO $\rightleftharpoons$ CO

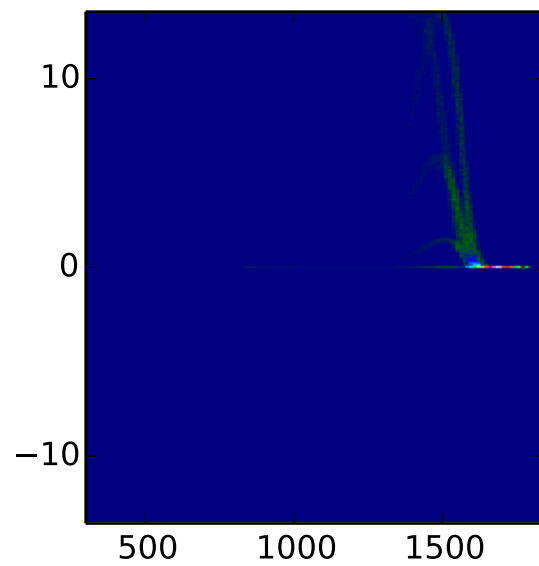
Curvature: -6000 : -5200



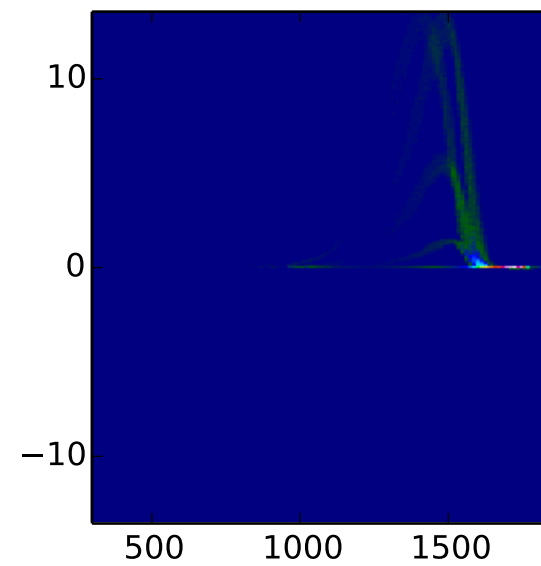
Curvature: -5200 : -4400



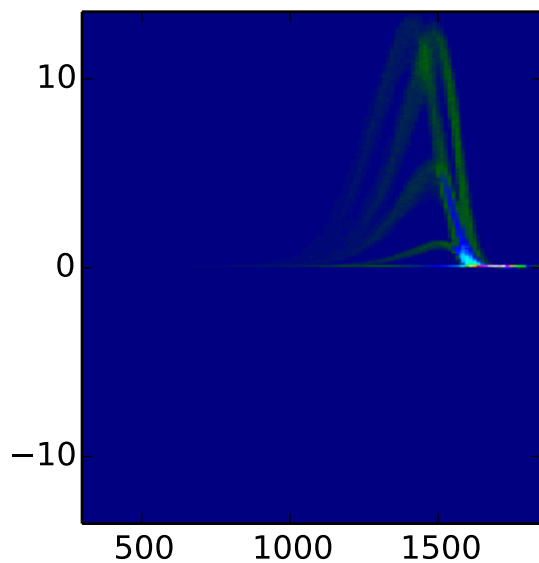
Curvature: -4400 : -3600



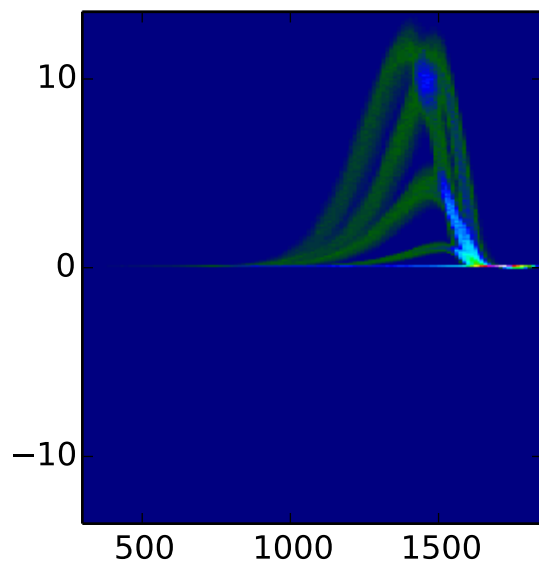
Curvature: -3600 : -2800



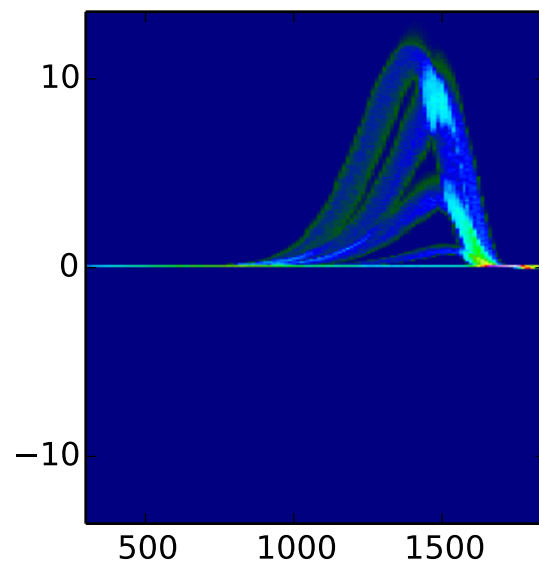
Curvature: -2800 : -2000



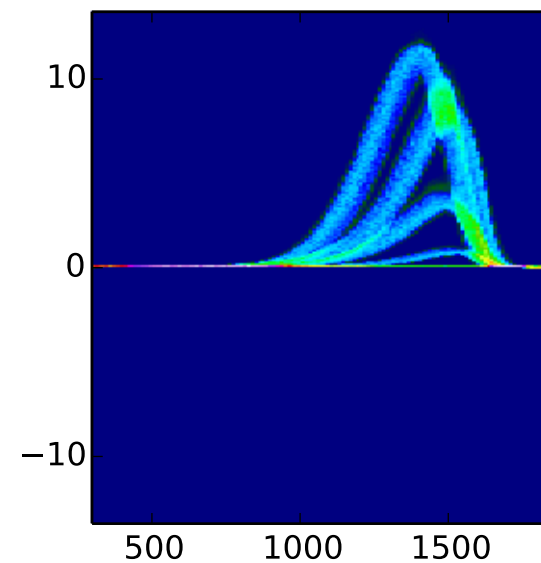
Curvature: -2000 : -1200



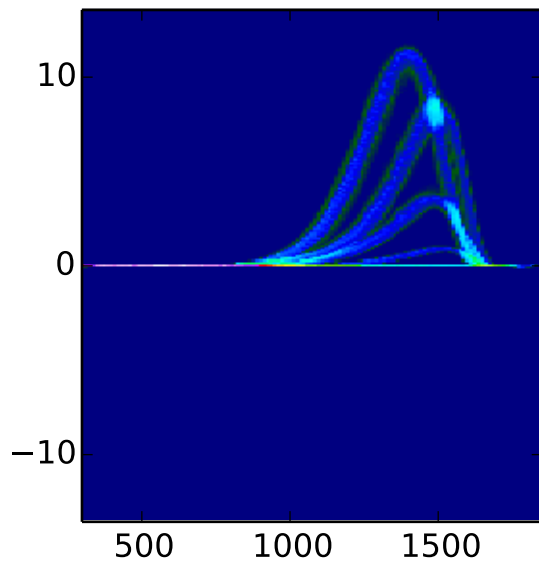
Curvature: -1200 : -400



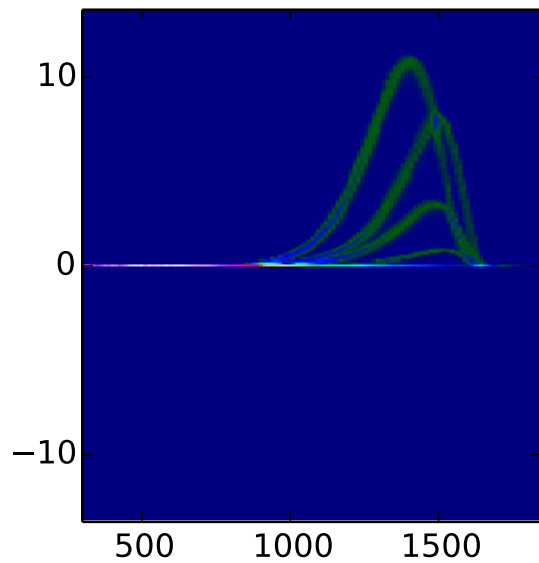
Curvature: -400 : 400



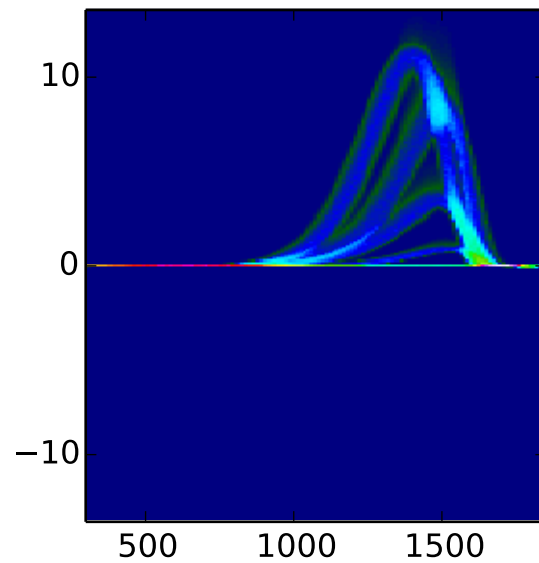
Curvature: 400 : 1200



Curvature: 1200 : 2000



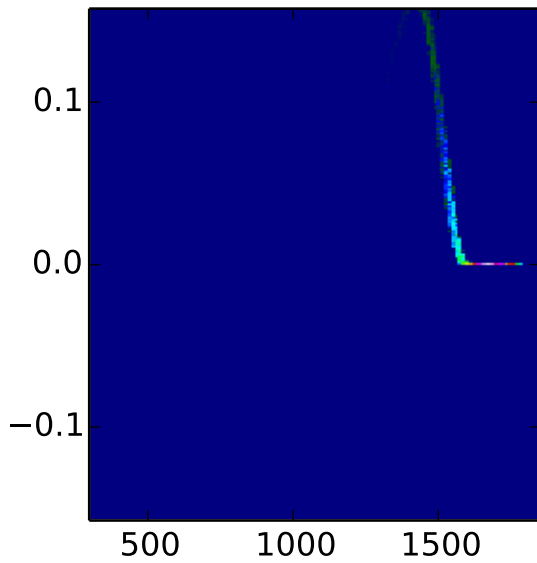
Sum



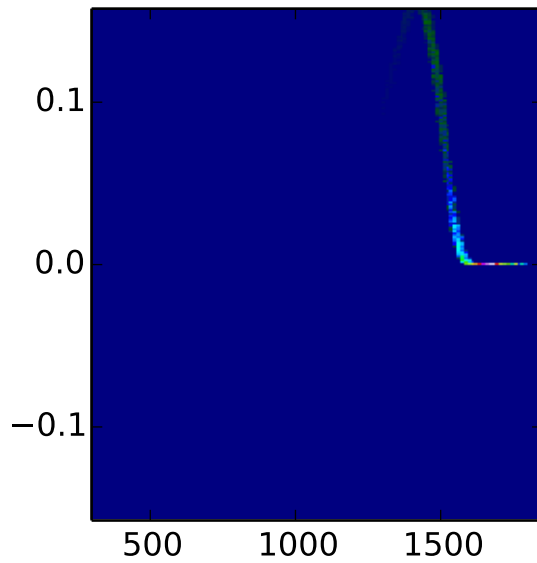


# Edge CH<sub>3</sub>CHO $\rightleftharpoons$ CH<sub>4</sub>

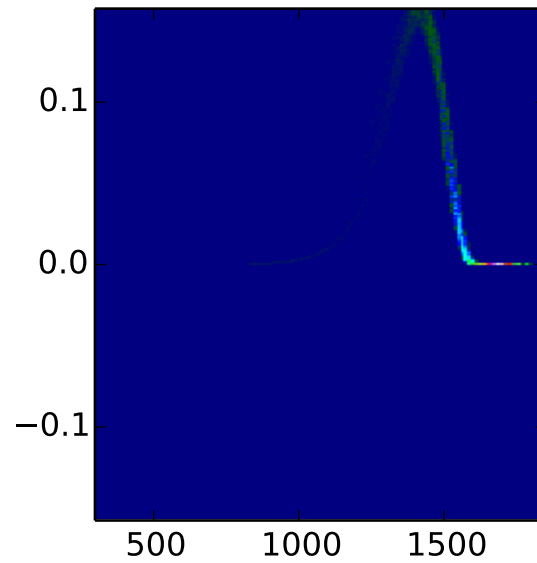
Curvature: -6000 : -5200



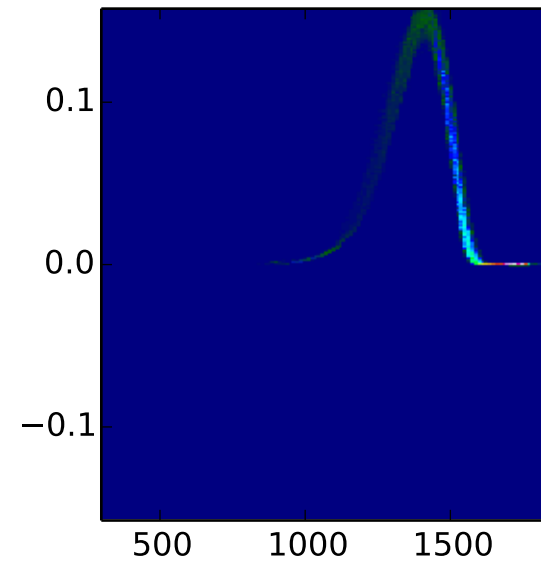
Curvature: -5200 : -4400



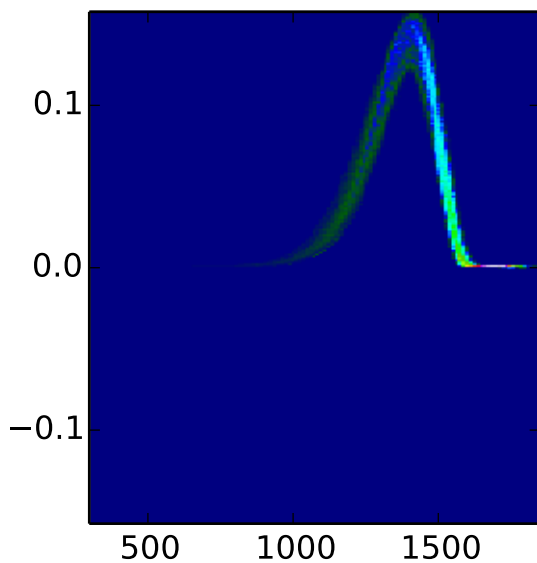
Curvature: -4400 : -3600



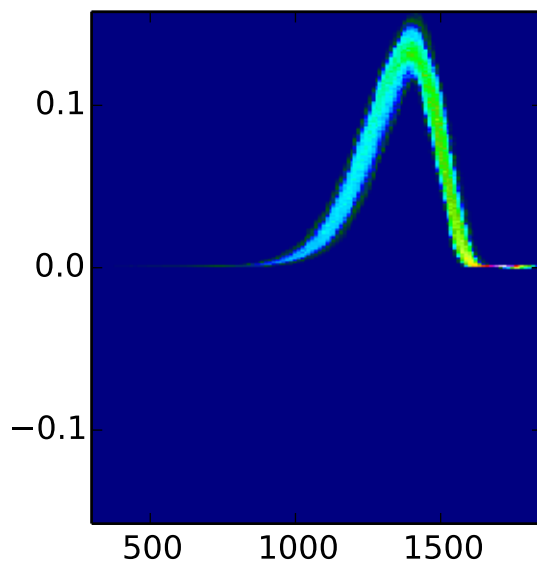
Curvature: -3600 : -2800



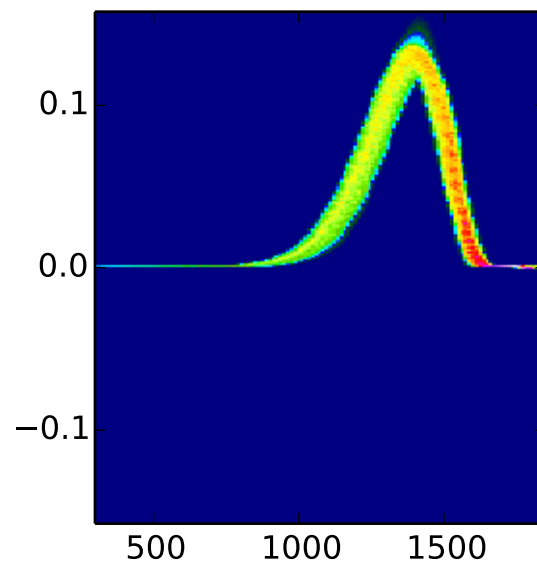
Curvature: -2800 : -2000



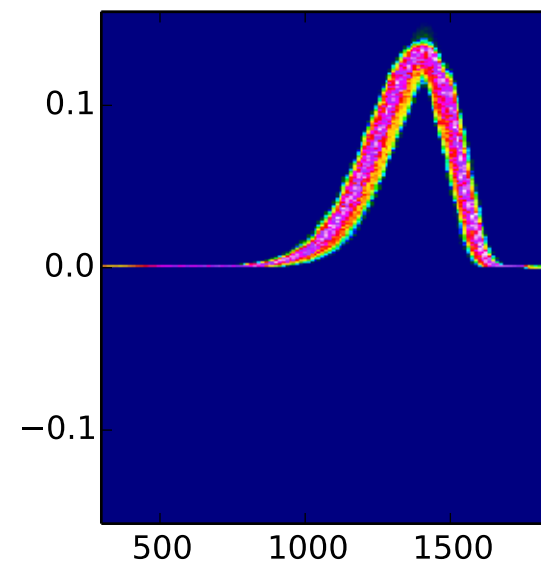
Curvature: -2000 : -1200



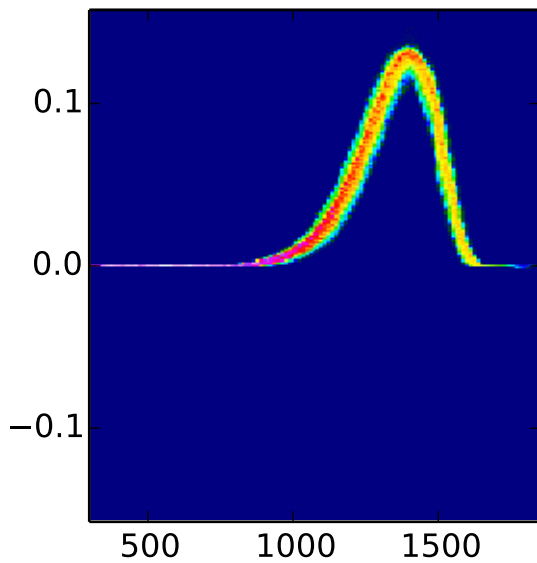
Curvature: -1200 : -400



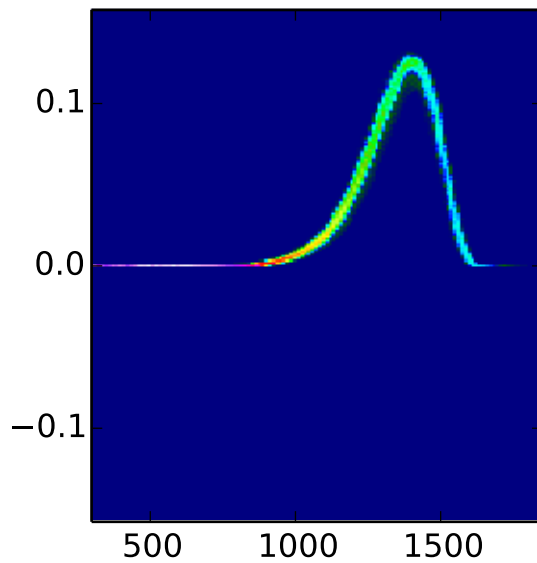
Curvature: -400 : 400



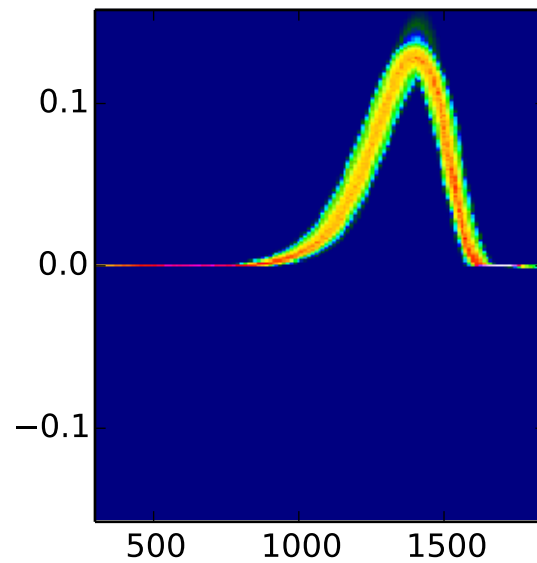
Curvature: 400 : 1200



Curvature: 1200 : 2000

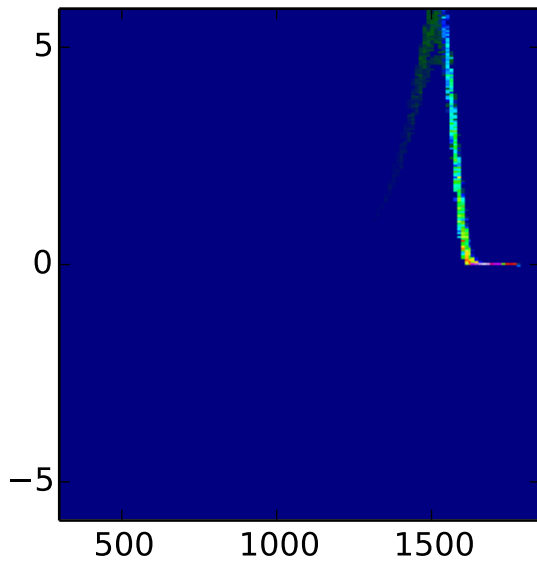


Sum

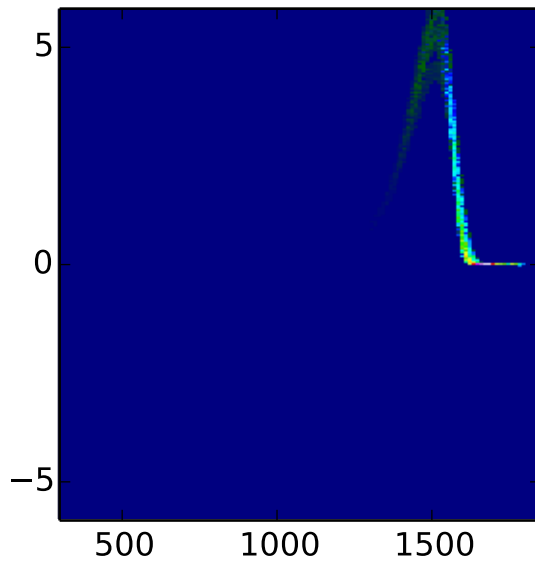


# Edge CH<sub>2</sub>CHO $\rightleftharpoons$ CH<sub>2</sub>

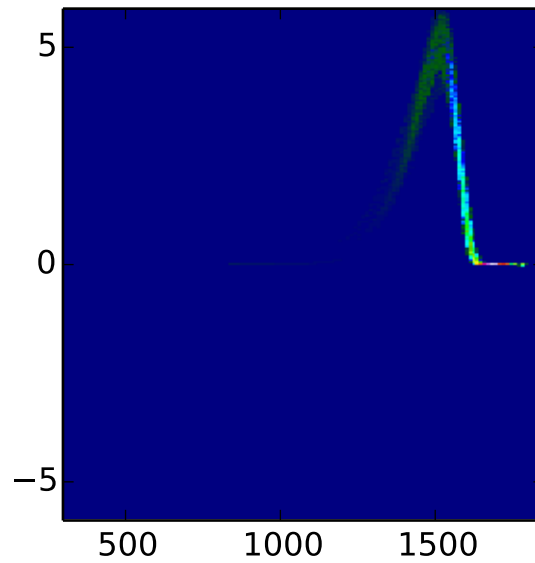
Curvature: -6000 : -5200



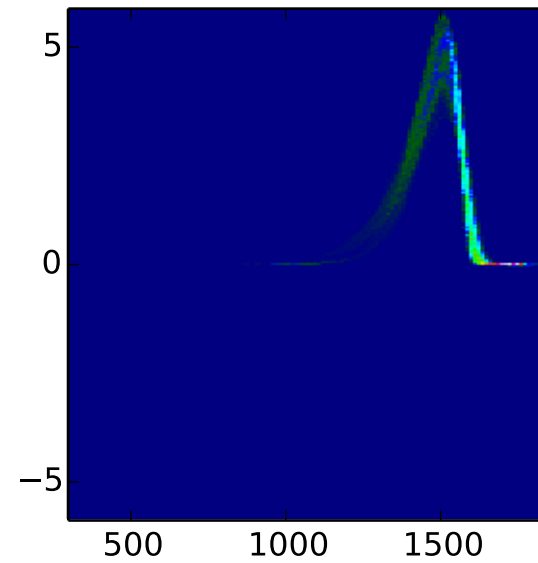
Curvature: -5200 : -4400



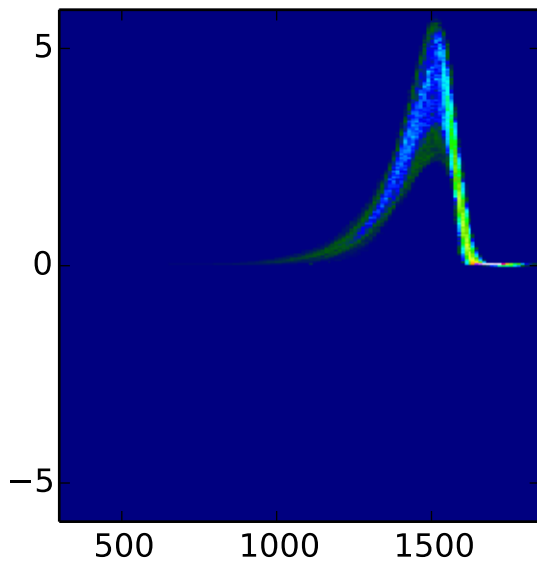
Curvature: -4400 : -3600



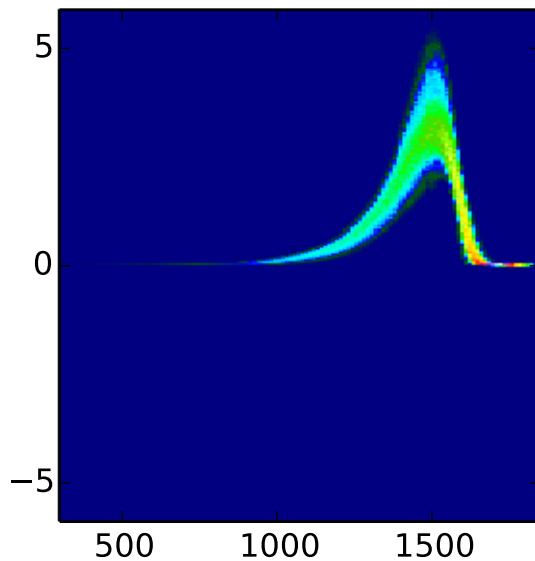
Curvature: -3600 : -2800



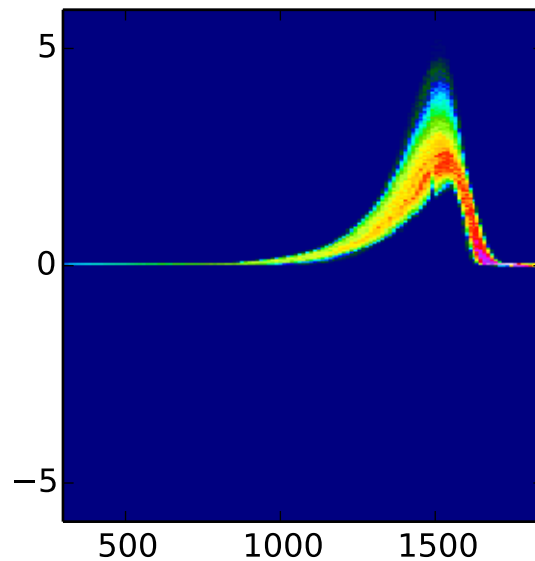
Curvature: -2800 : -2000



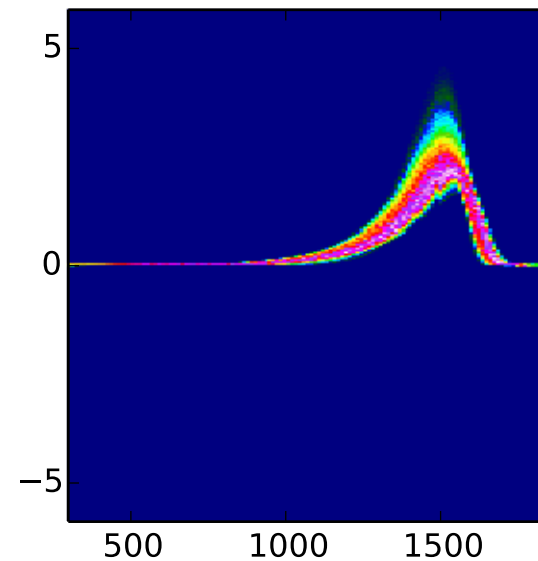
Curvature: -2000 : -1200



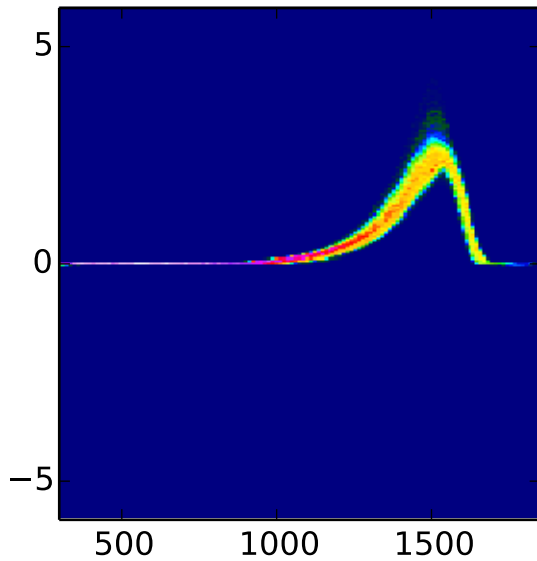
Curvature: -1200 : -400



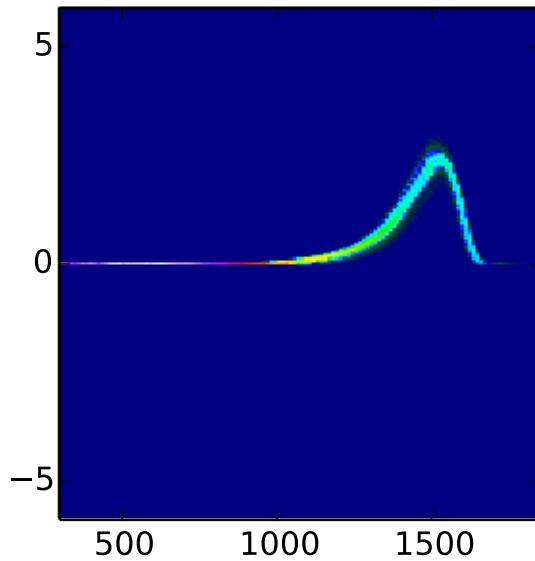
Curvature: -400 : 400



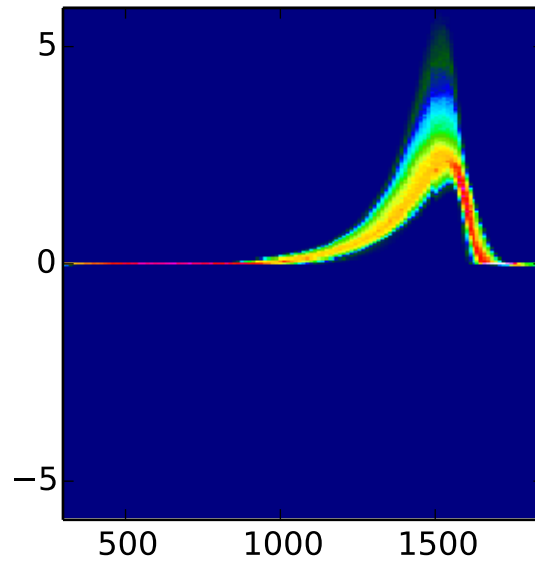
Curvature: 400 : 1200



Curvature: 1200 : 2000

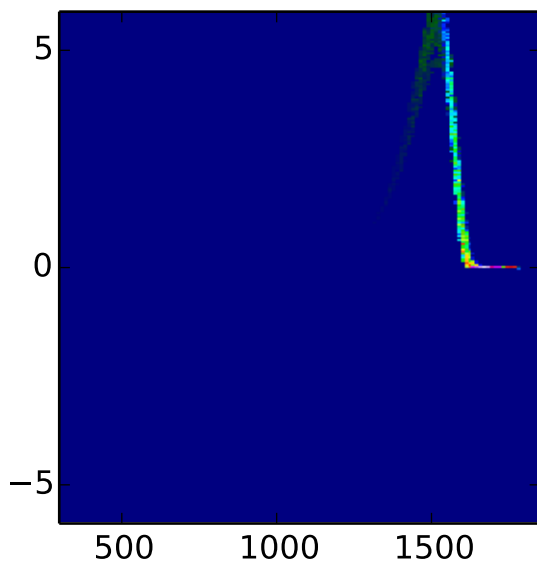


Sum

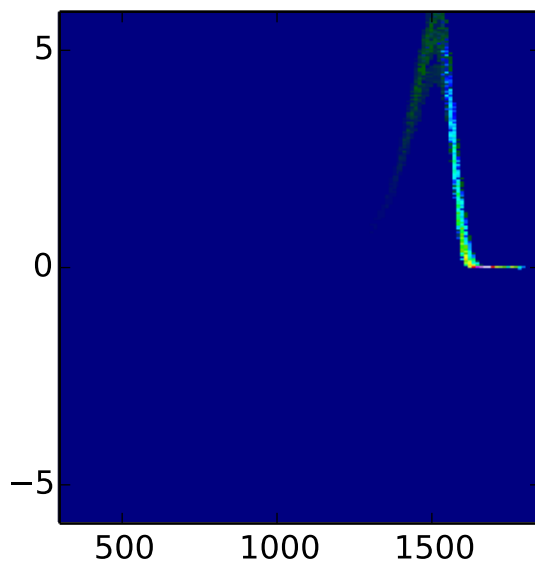


# Edge CH<sub>2</sub>CHO $\rightleftharpoons$ CO<sub>2</sub>

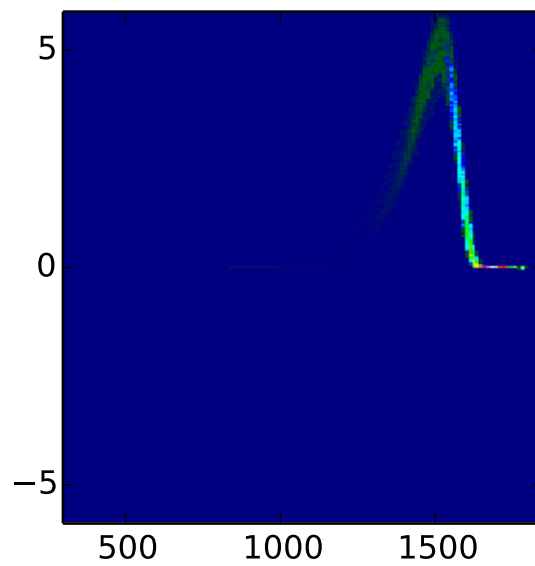
Curvature: -6000 : -5200



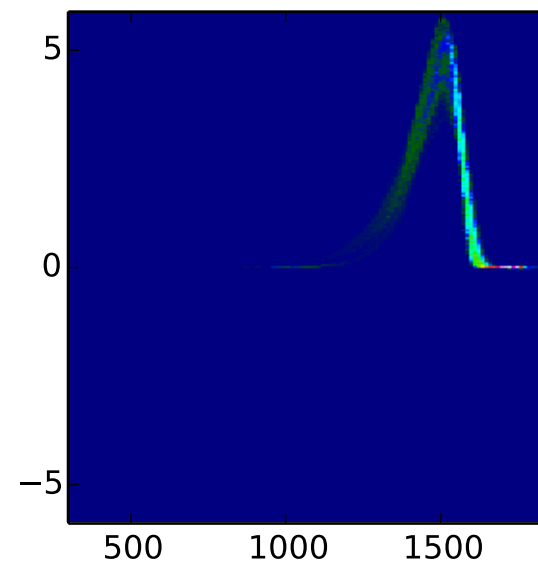
Curvature: -5200 : -4400



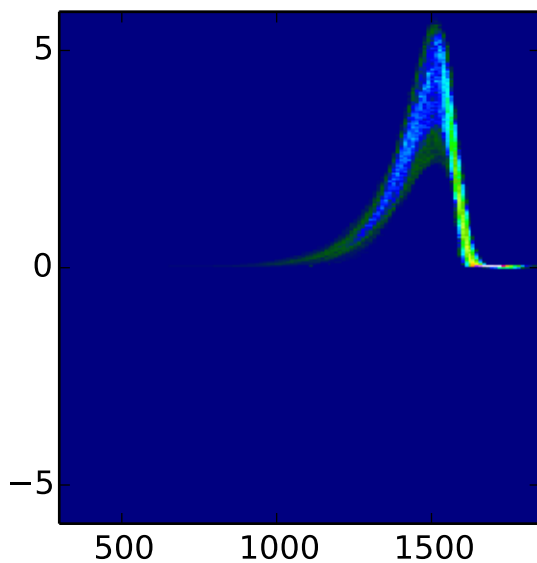
Curvature: -4400 : -3600



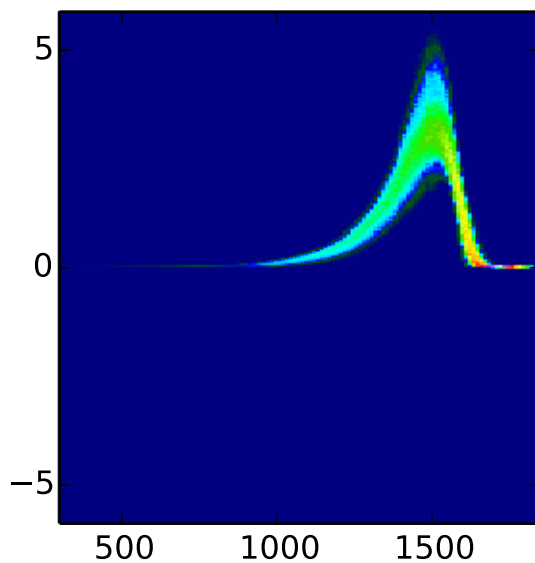
Curvature: -3600 : -2800



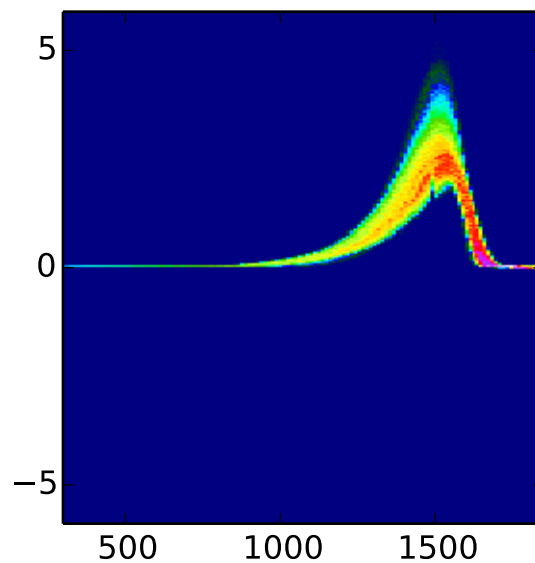
Curvature: -2800 : -2000



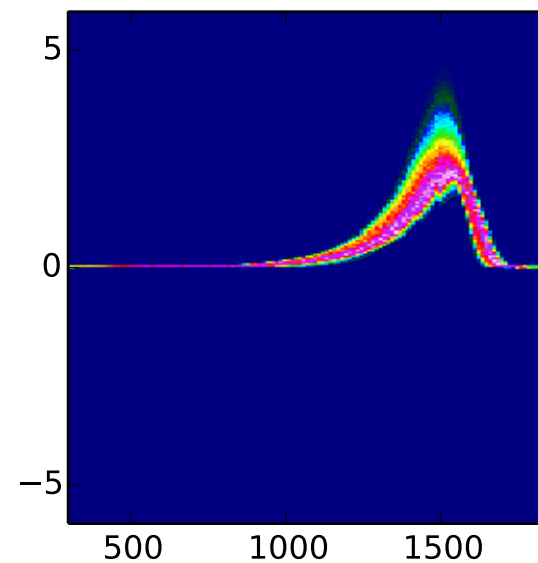
Curvature: -2000 : -1200



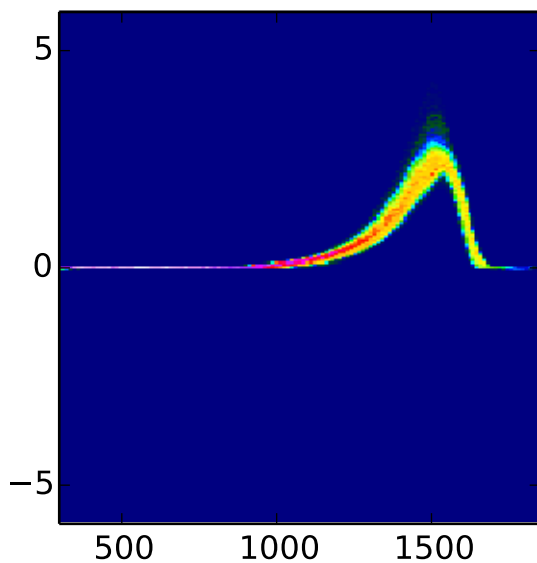
Curvature: -1200 : -400



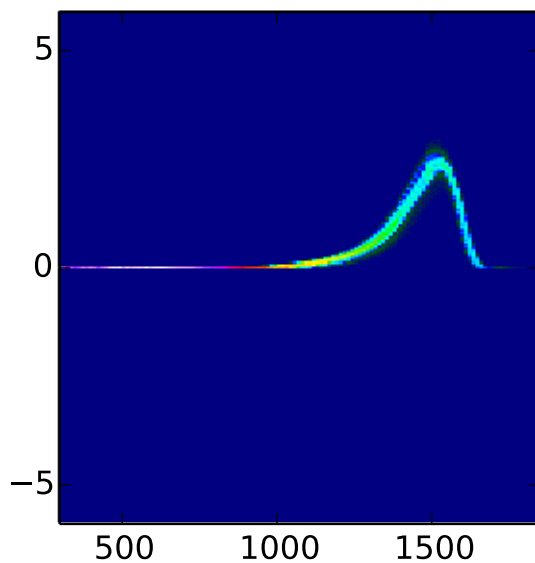
Curvature: -400 : 400



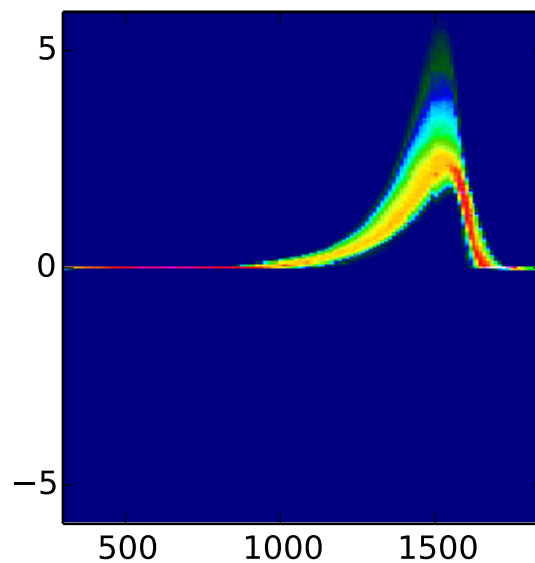
Curvature: 400 : 1200



Curvature: 1200 : 2000

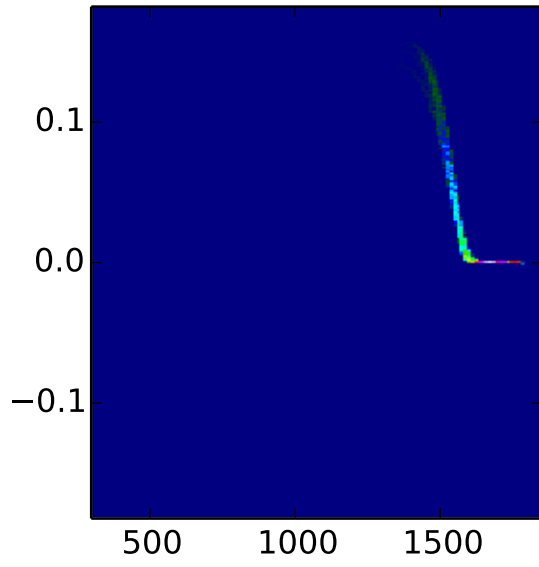


Sum

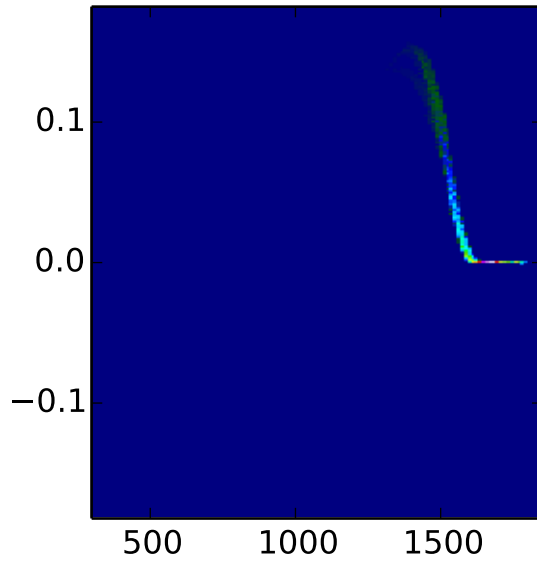


# Edge $\text{CH}_2\text{CHO} \rightleftharpoons \text{CH}_2\text{O}$

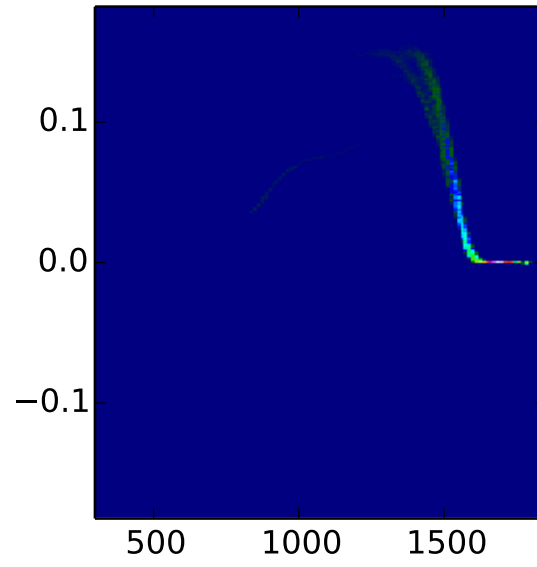
Curvature: -6000 : -5200



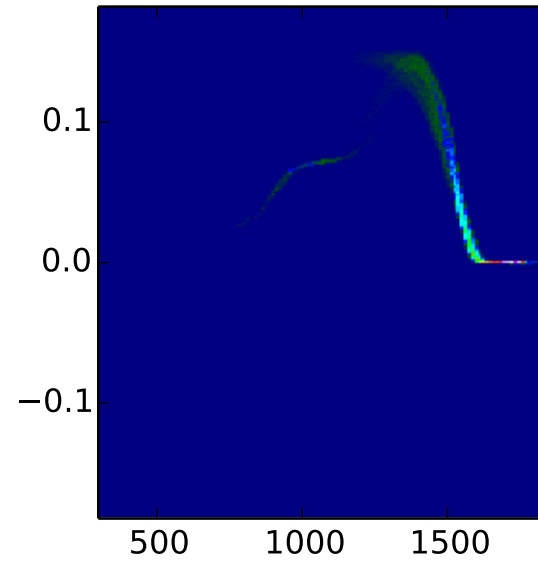
Curvature: -5200 : -4400



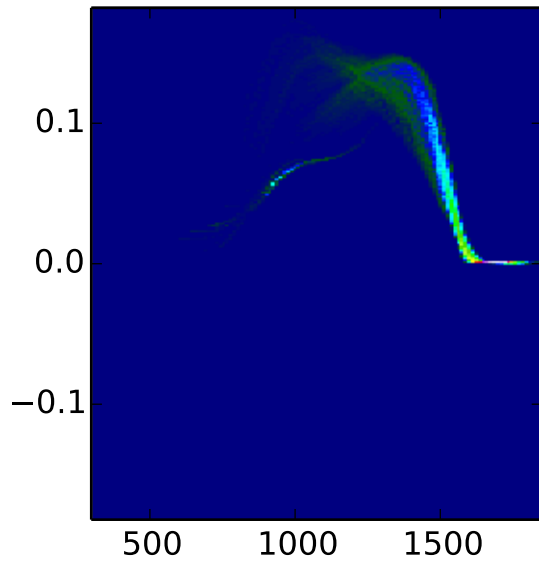
Curvature: -4400 : -3600



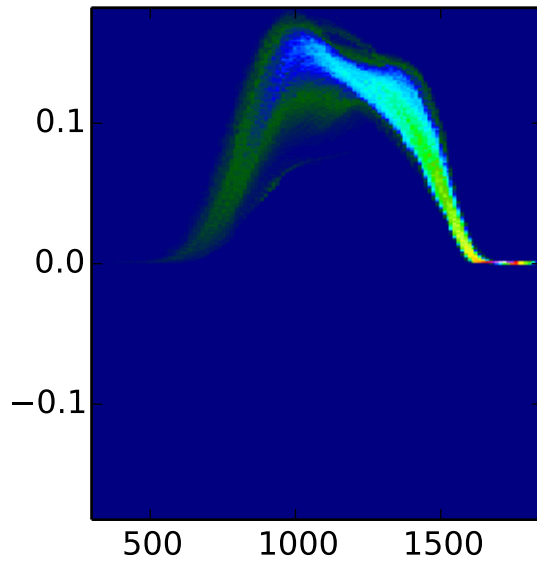
Curvature: -3600 : -2800



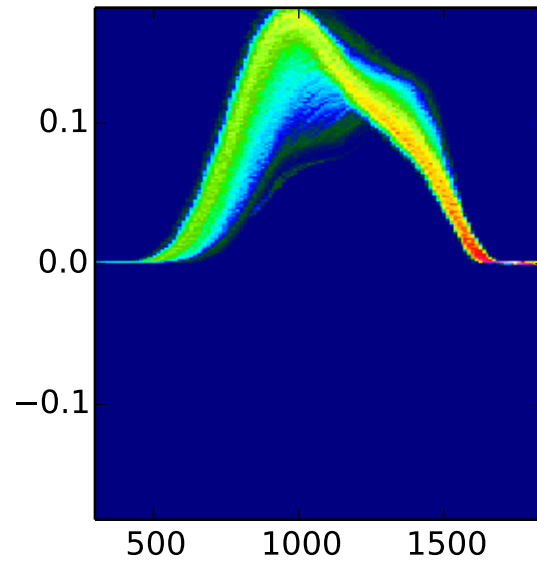
Curvature: -2800 : -2000



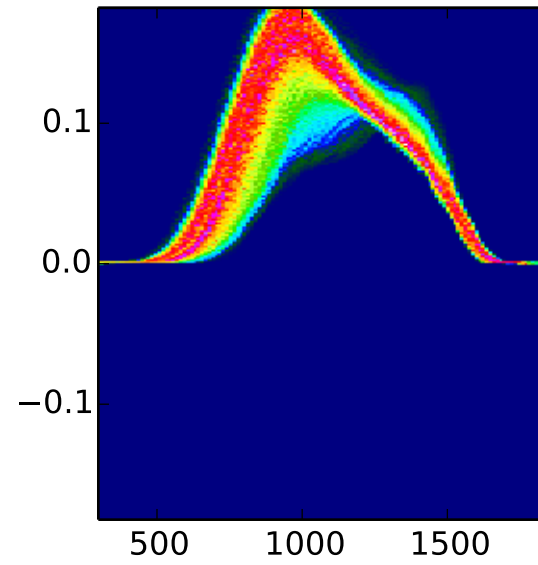
Curvature: -2000 : -1200



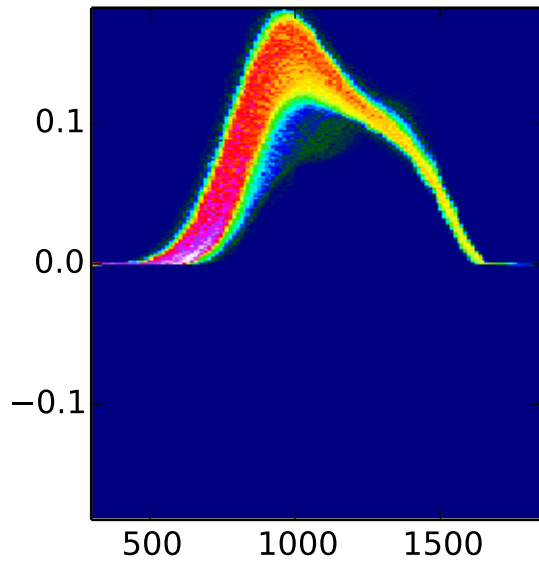
Curvature: -1200 : -400



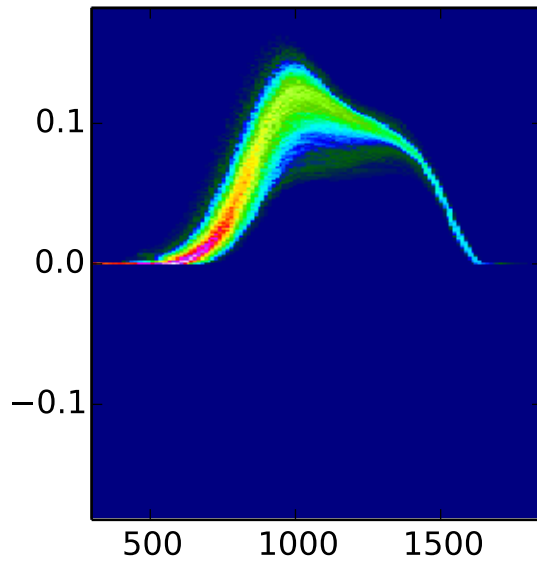
Curvature: -400 : 400



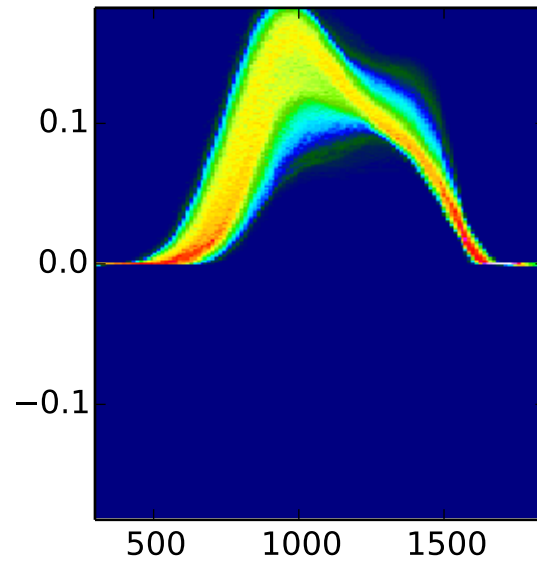
Curvature: 400 : 1200



Curvature: 1200 : 2000

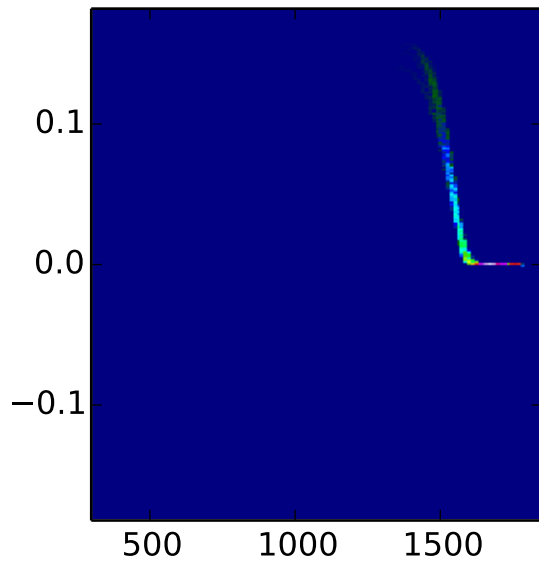


Sum

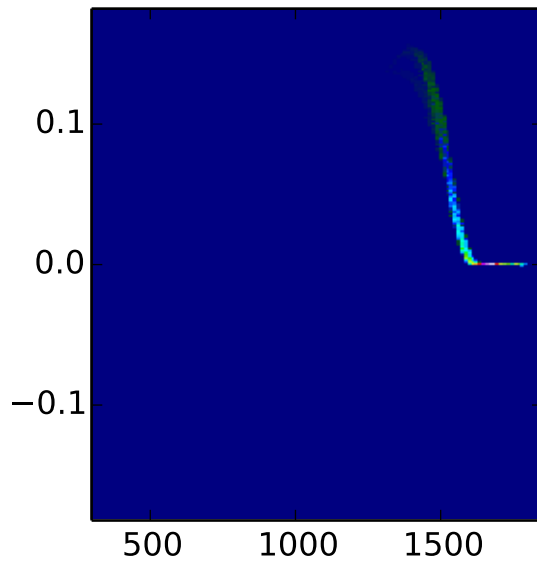


# Edge CH<sub>2</sub>CHO $\rightleftharpoons$ CO

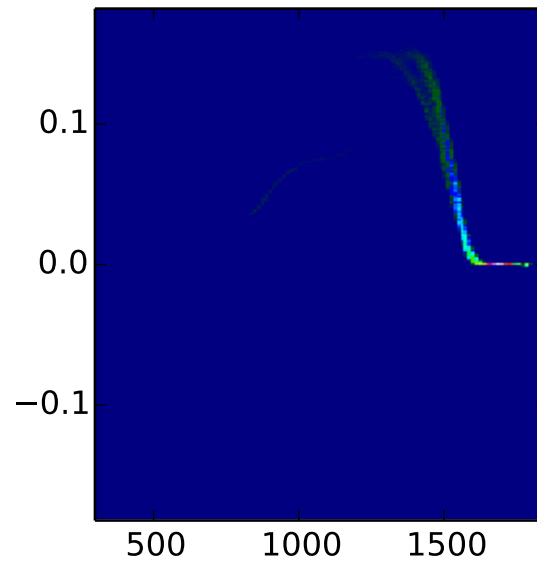
Curvature: -6000 : -5200



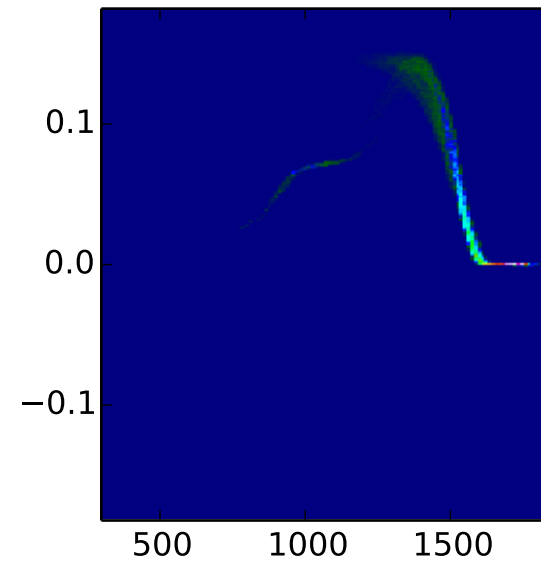
Curvature: -5200 : -4400



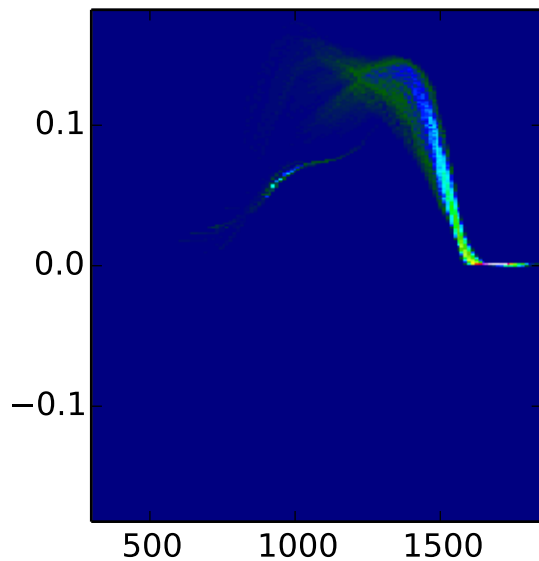
Curvature: -4400 : -3600



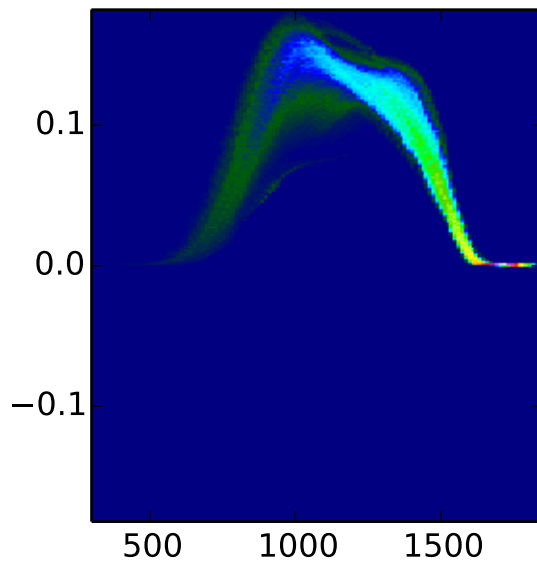
Curvature: -3600 : -2800



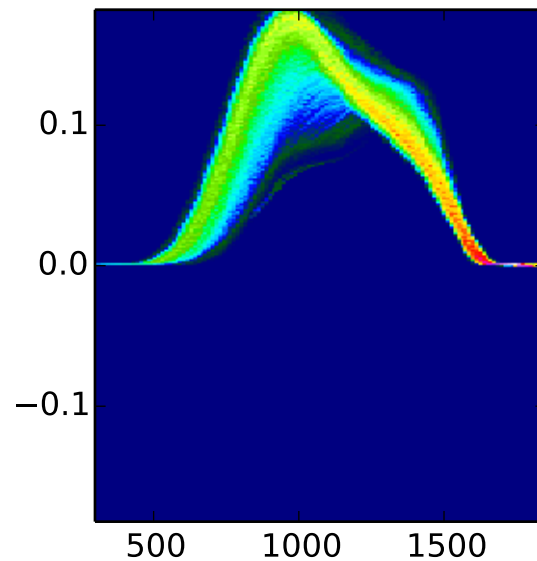
Curvature: -2800 : -2000



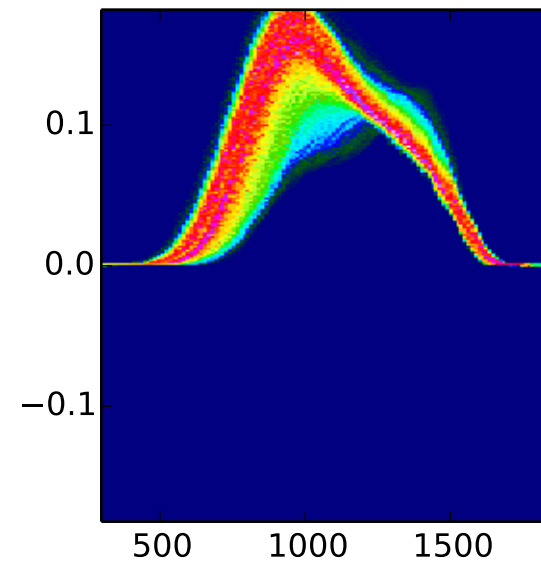
Curvature: -2000 : -1200



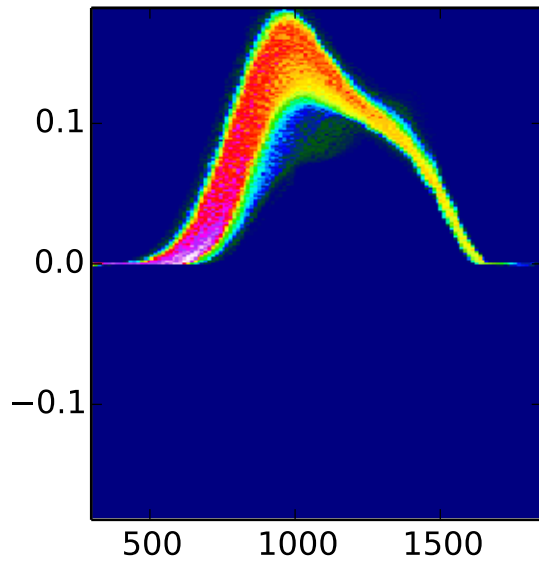
Curvature: -1200 : -400



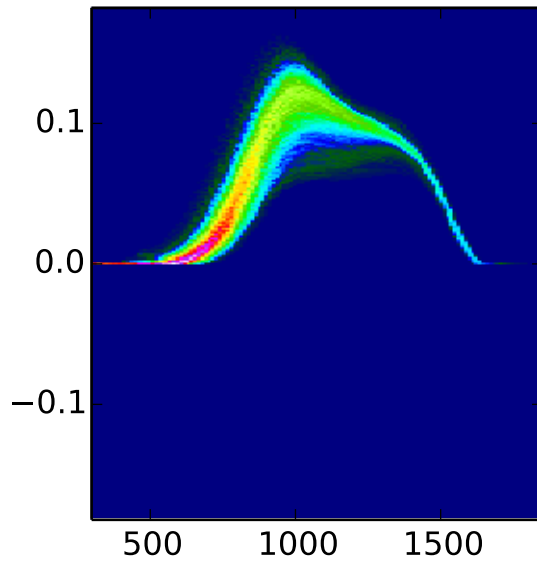
Curvature: -400 : 400



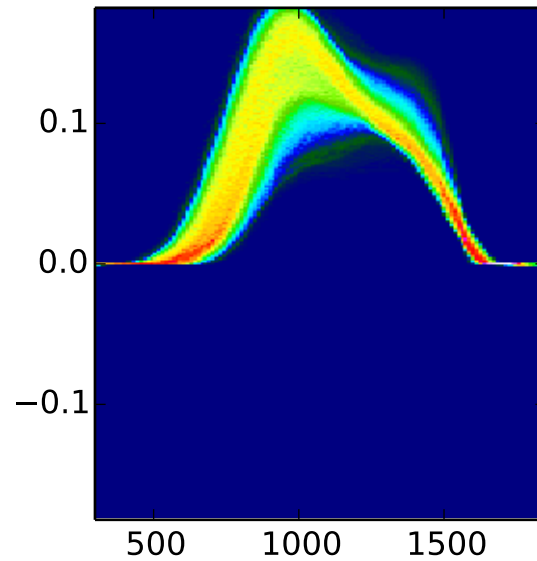
Curvature: 400 : 1200



Curvature: 1200 : 2000

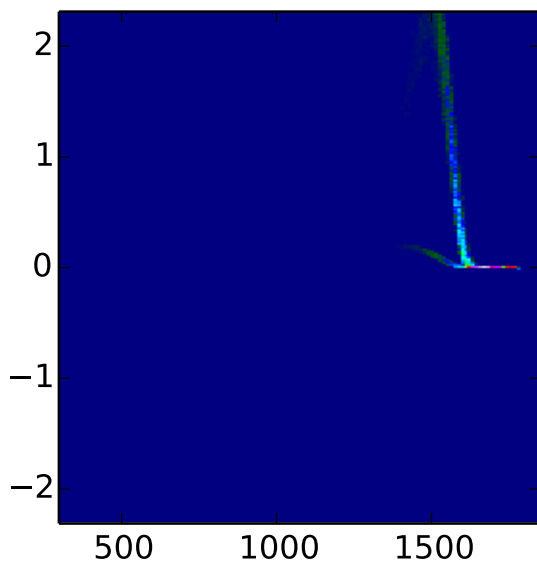


Sum

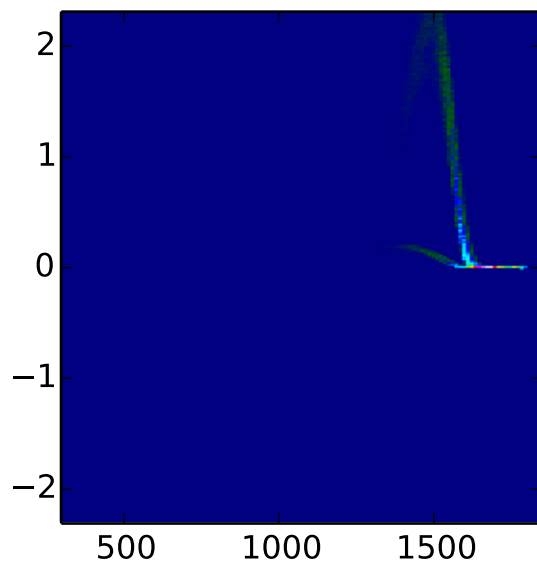


# Edge CH<sub>2</sub>CHO $\rightleftharpoons$ HCO

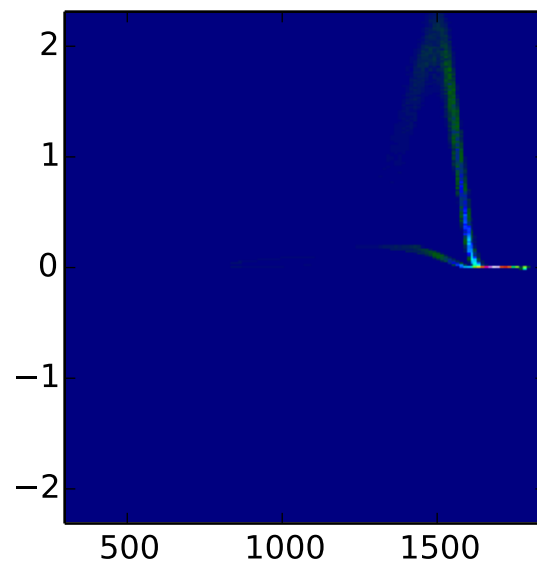
Curvature: -6000 : -5200



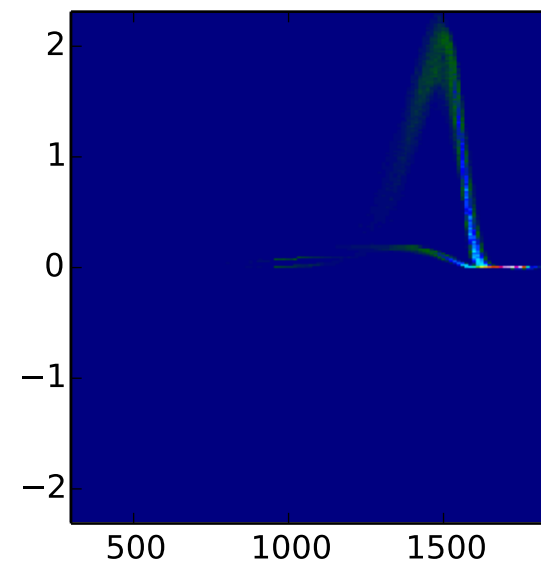
Curvature: -5200 : -4400



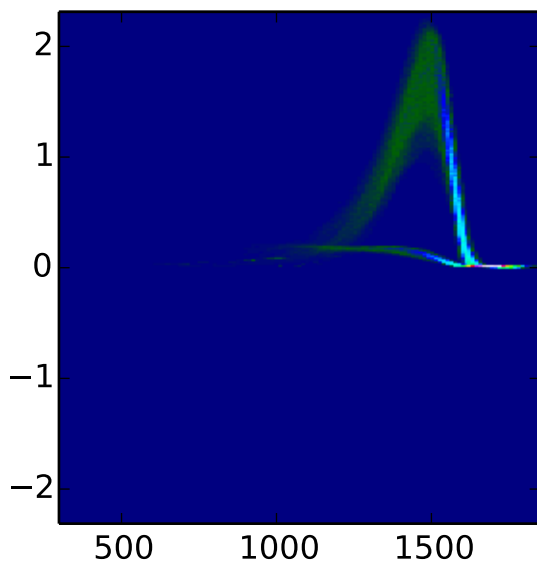
Curvature: -4400 : -3600



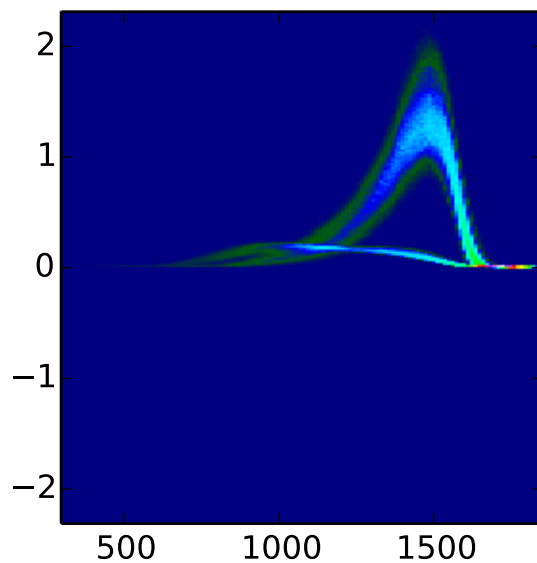
Curvature: -3600 : -2800



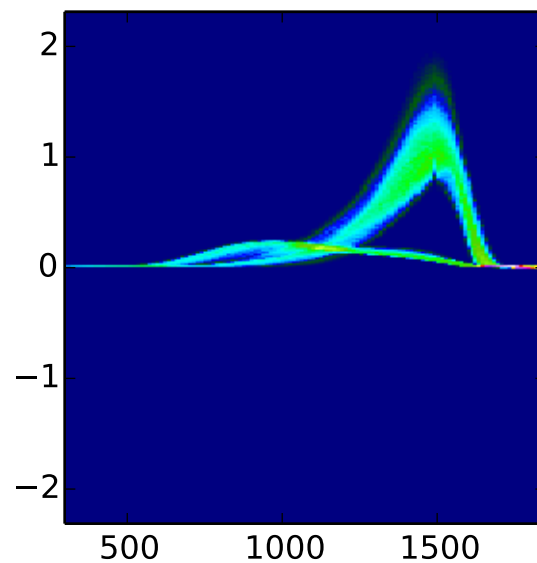
Curvature: -2800 : -2000



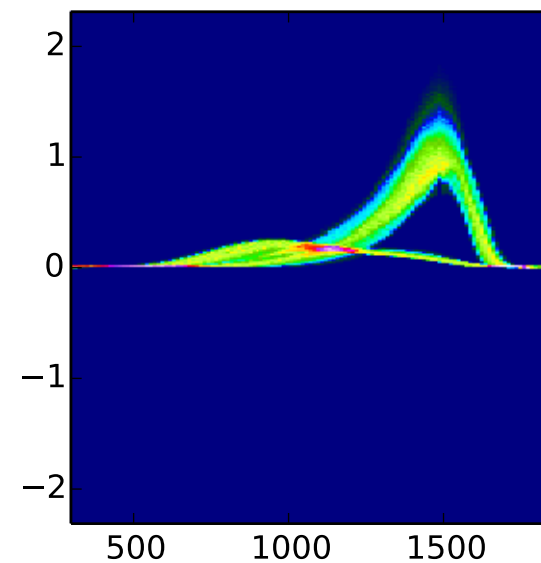
Curvature: -2000 : -1200



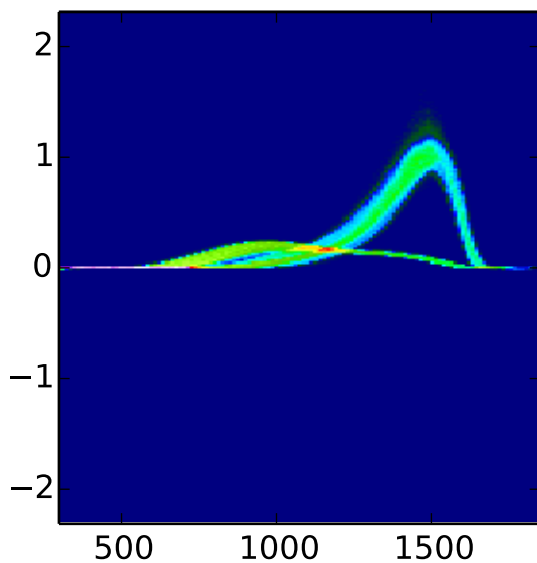
Curvature: -1200 : -400



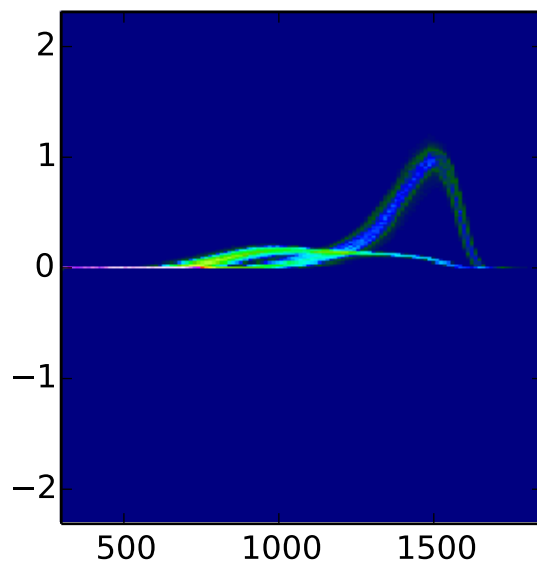
Curvature: -400 : 400



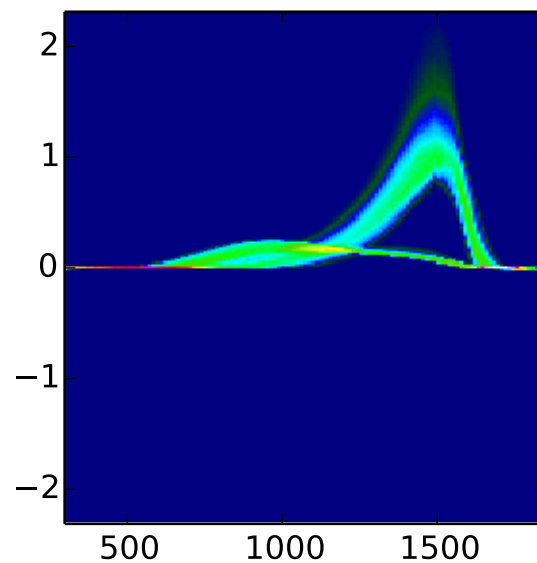
Curvature: 400 : 1200



Curvature: 1200 : 2000

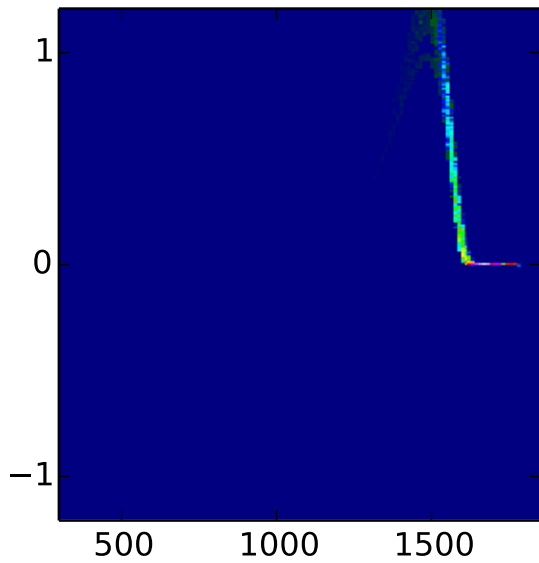


Sum

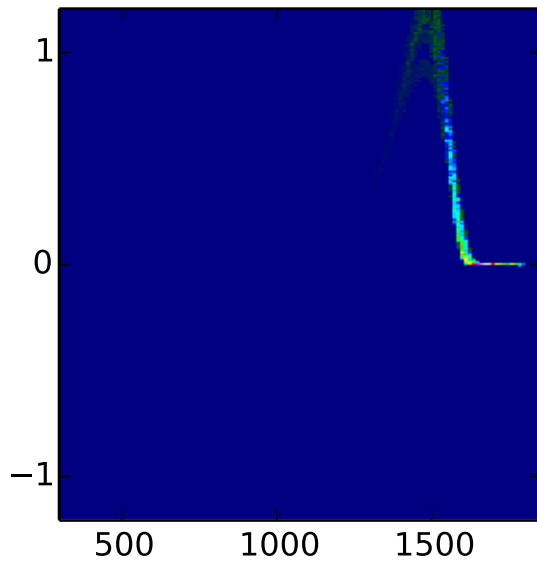


# Edge CH<sub>2</sub>CHO $\rightleftharpoons$ CH<sub>3</sub>

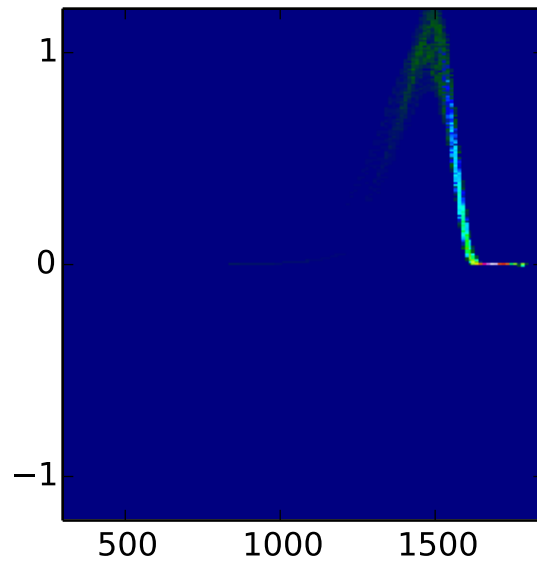
Curvature: -6000 : -5200



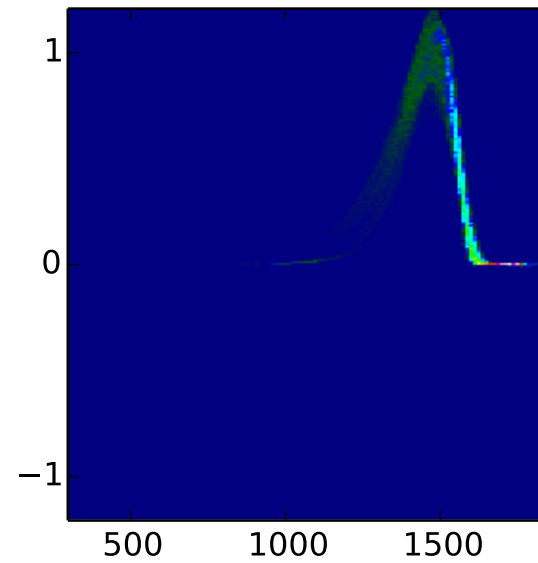
Curvature: -5200 : -4400



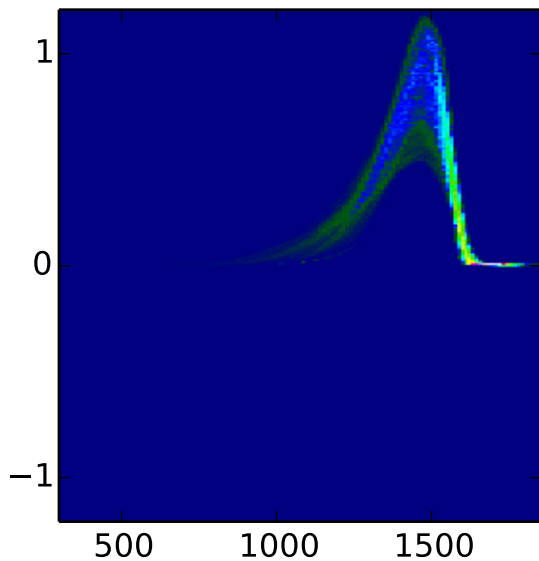
Curvature: -4400 : -3600



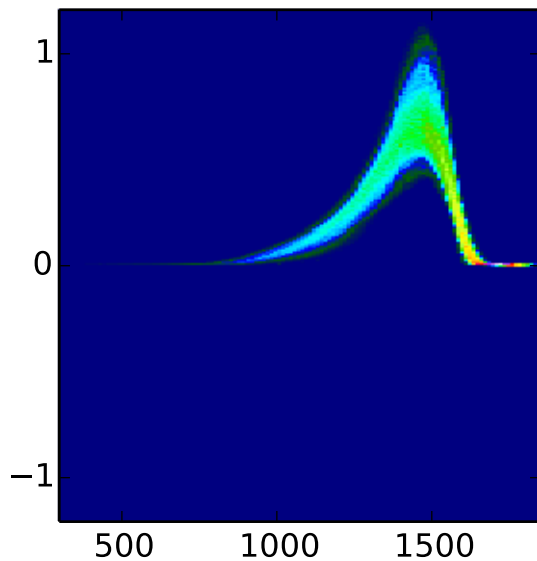
Curvature: -3600 : -2800



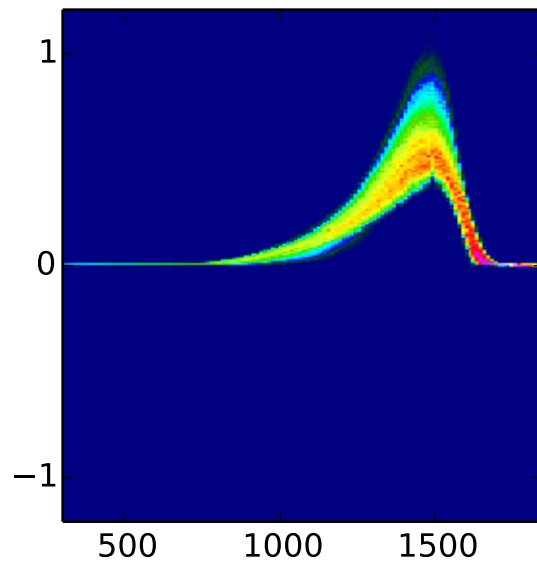
Curvature: -2800 : -2000



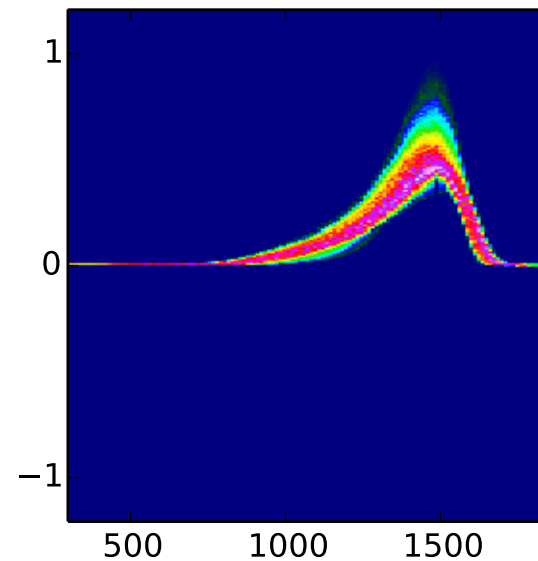
Curvature: -2000 : -1200



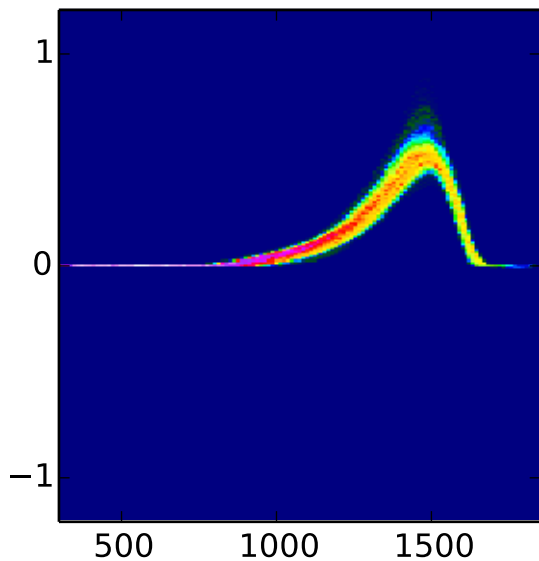
Curvature: -1200 : -400



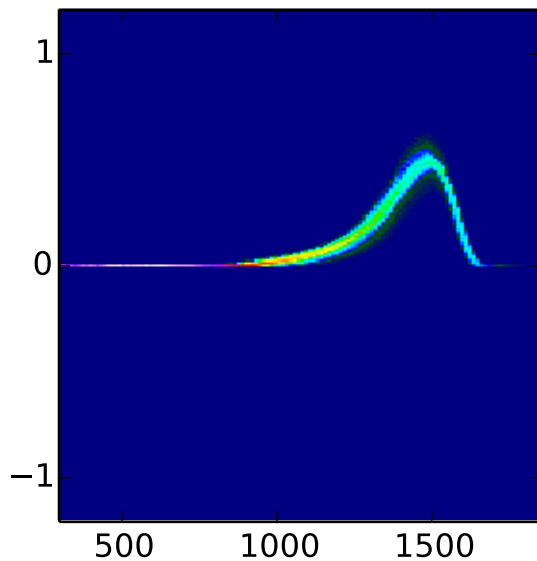
Curvature: -400 : 400



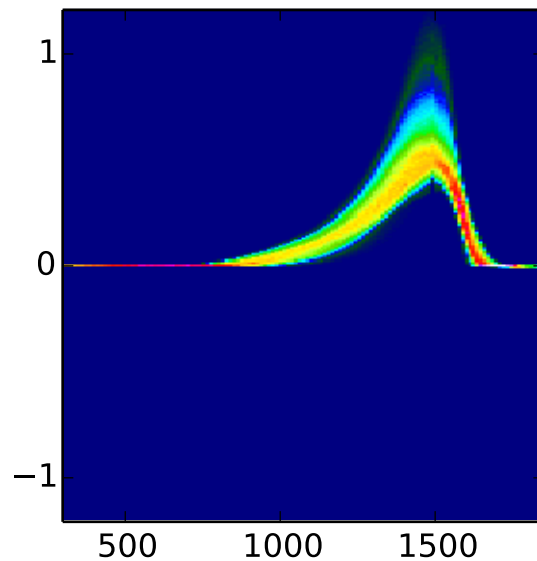
Curvature: 400 : 1200



Curvature: 1200 : 2000

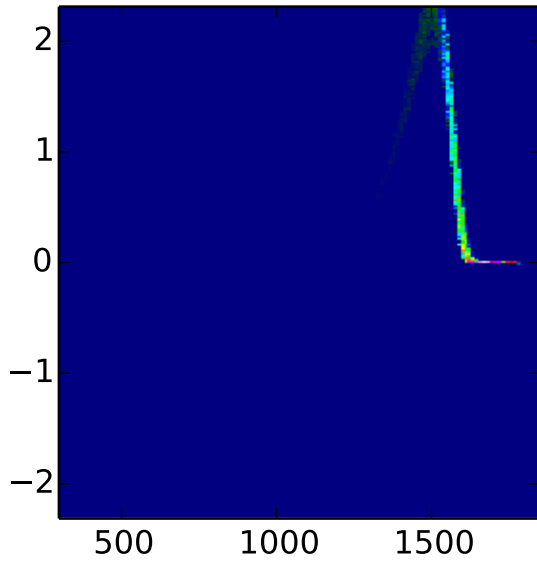


Sum

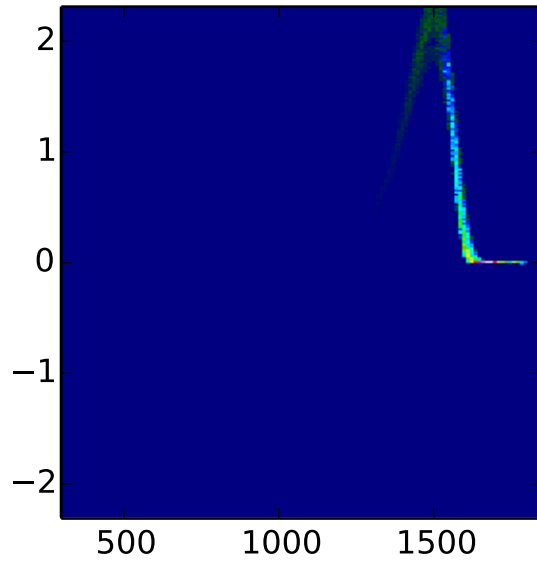


# Edge $\text{CH}_2\text{CHO} \rightleftharpoons \text{CH}_2\text{OH}$

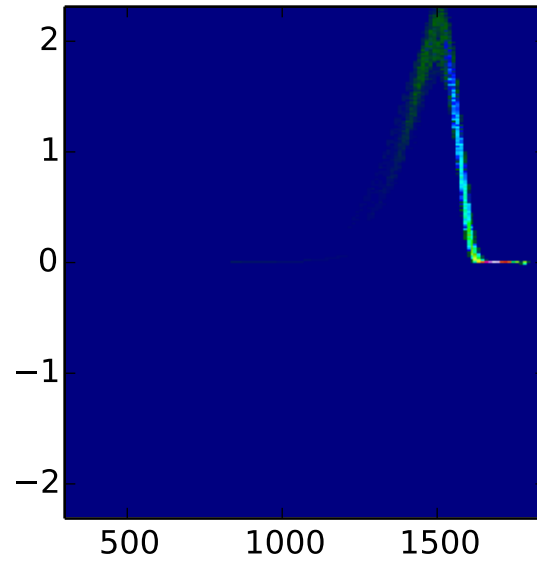
Curvature: -6000 : -5200



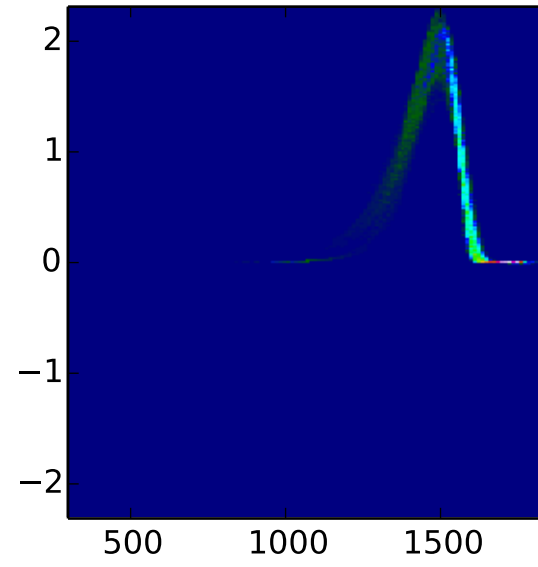
Curvature: -5200 : -4400



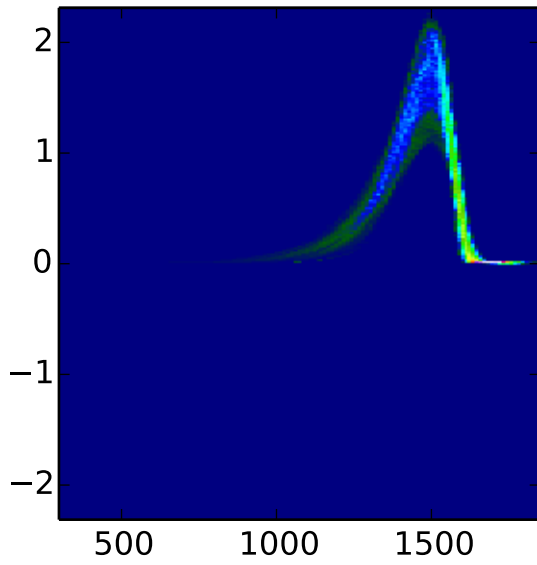
Curvature: -4400 : -3600



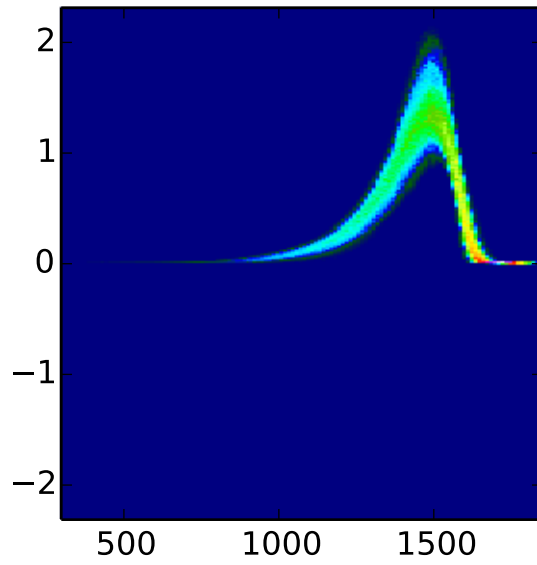
Curvature: -3600 : -2800



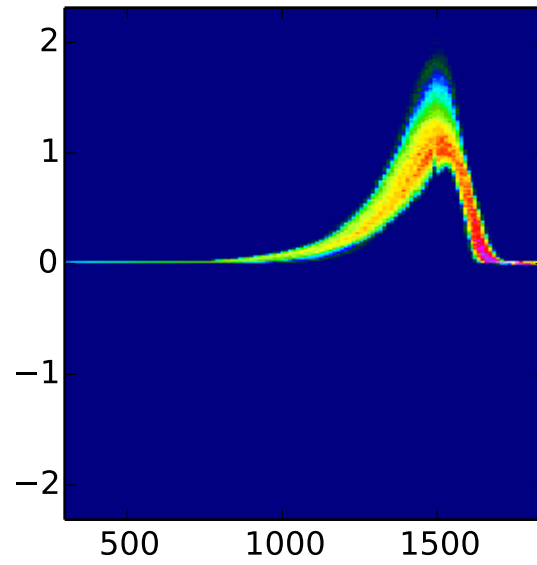
Curvature: -2800 : -2000



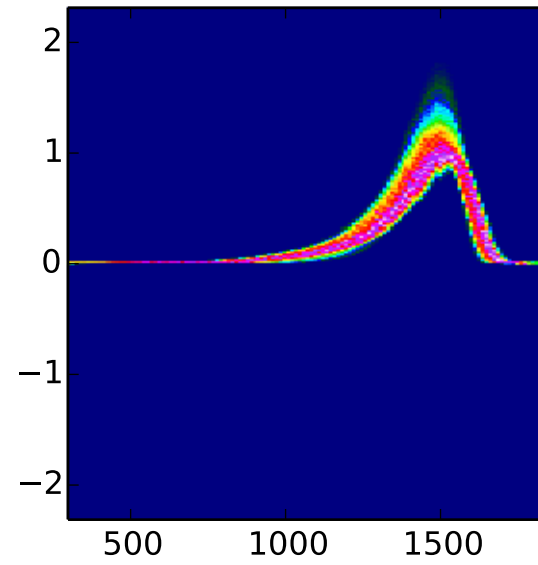
Curvature: -2000 : -1200



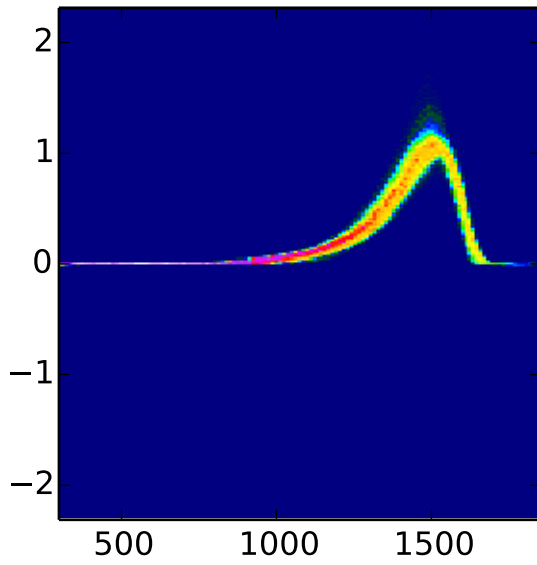
Curvature: -1200 : -400



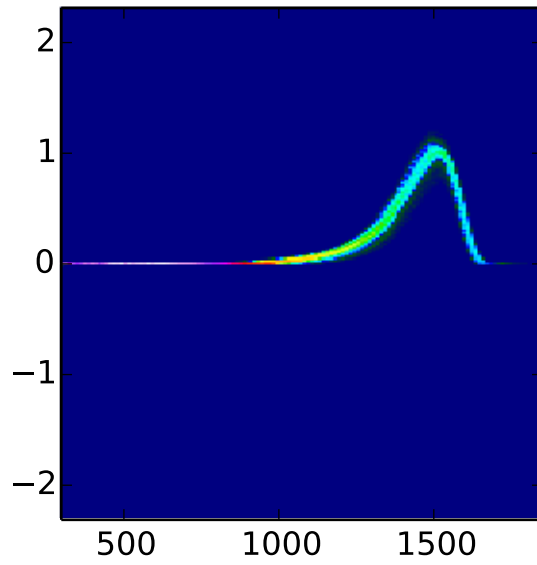
Curvature: -400 : 400



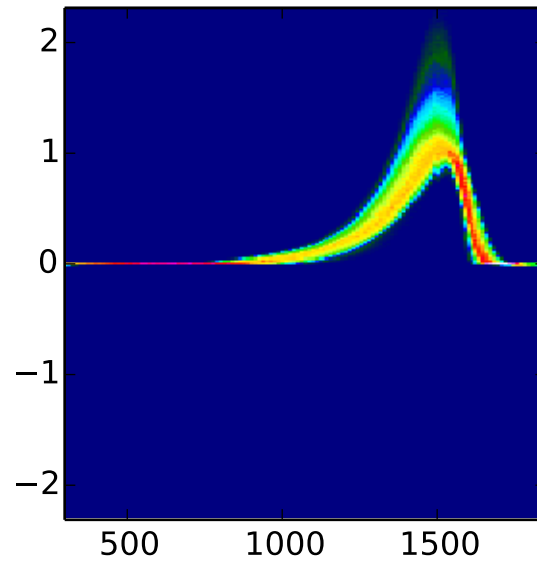
Curvature: 400 : 1200



Curvature: 1200 : 2000



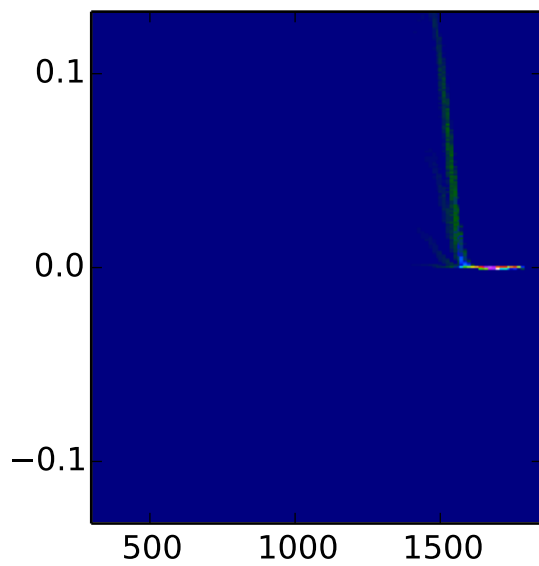
Sum



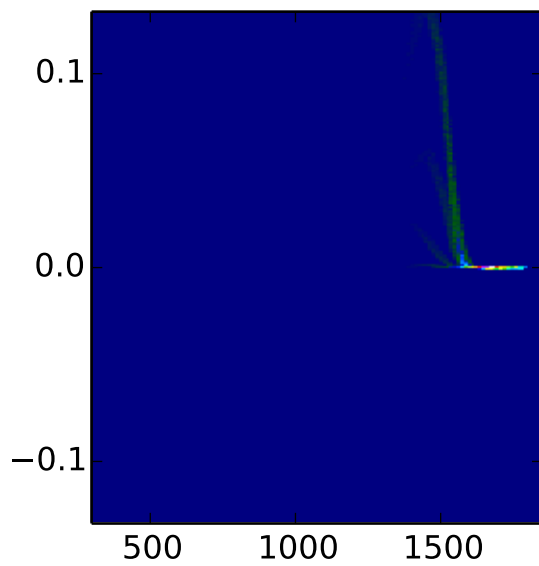


# Edge C3H7 $\rightleftharpoons$ C2H5

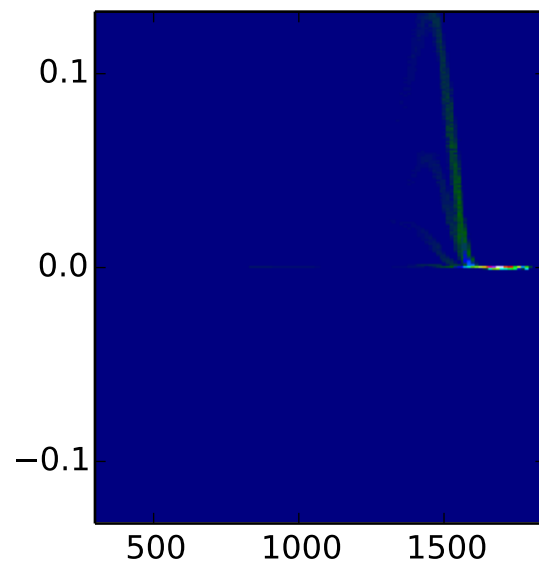
Curvature: -6000 : -5200



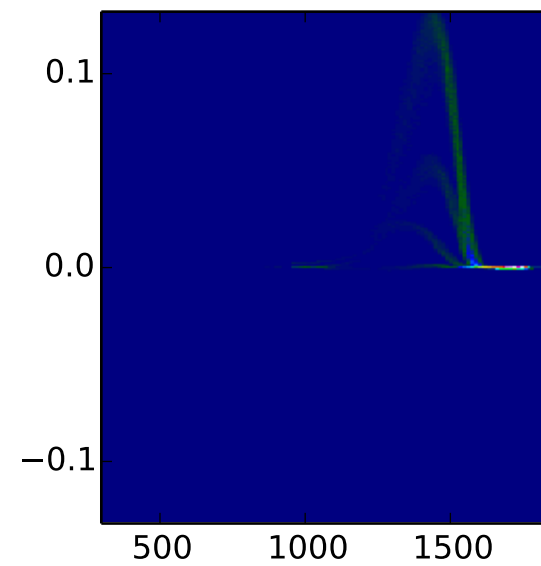
Curvature: -5200 : -4400



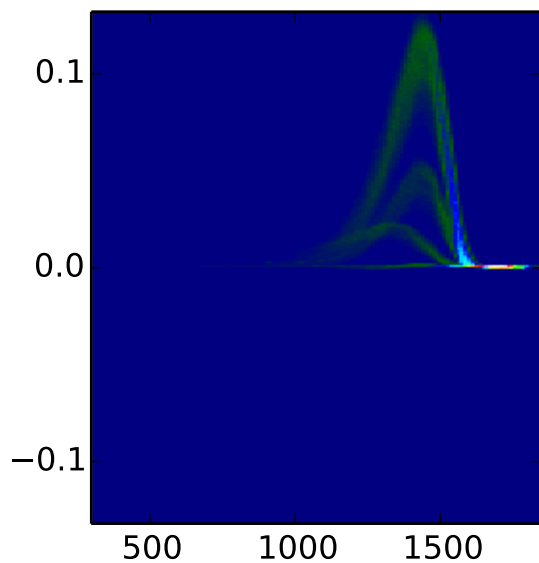
Curvature: -4400 : -3600



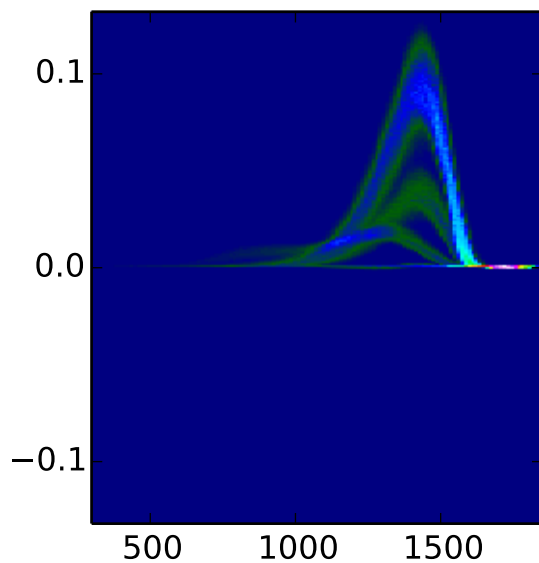
Curvature: -3600 : -2800



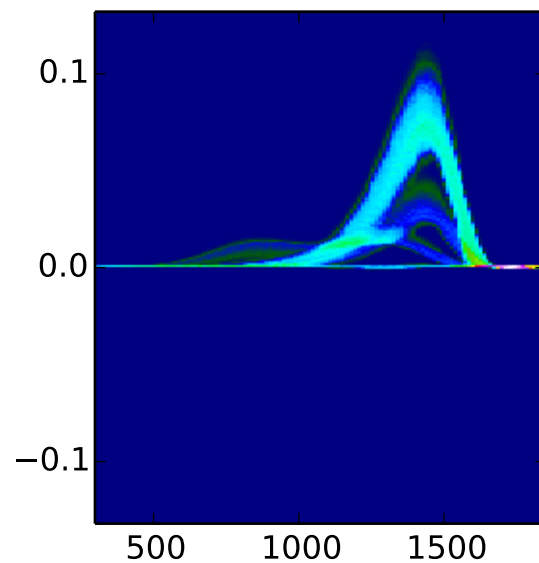
Curvature: -2800 : -2000



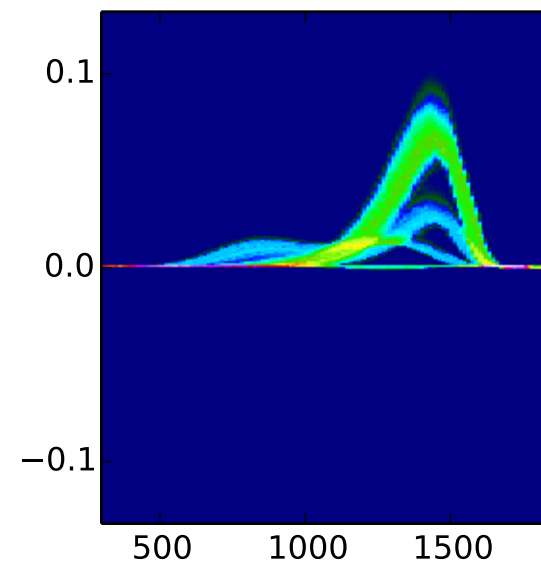
Curvature: -2000 : -1200



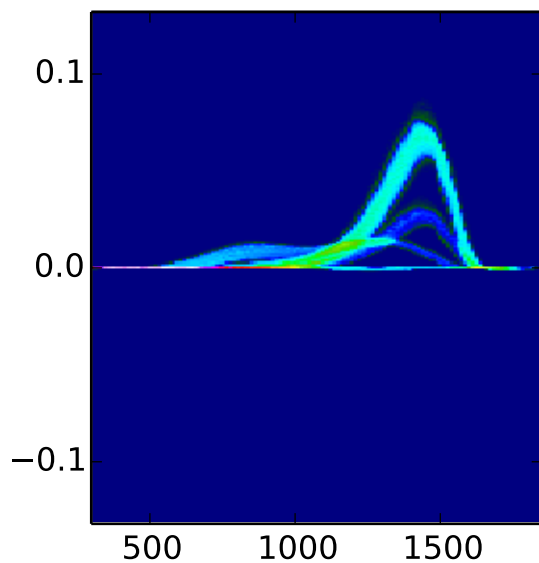
Curvature: -1200 : -400



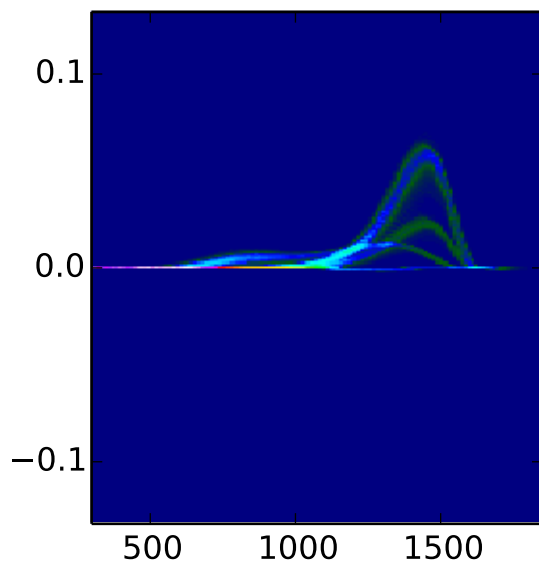
Curvature: -400 : 400



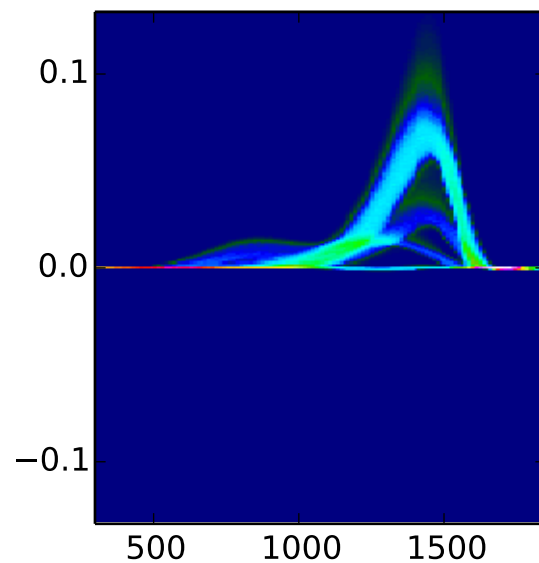
Curvature: 400 : 1200



Curvature: 1200 : 2000

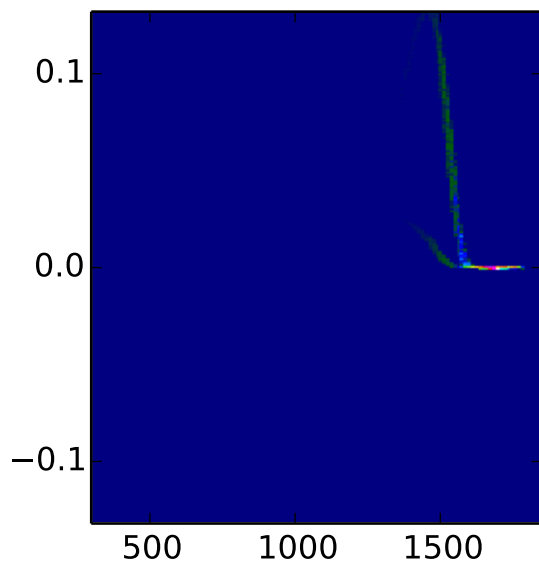


Sum

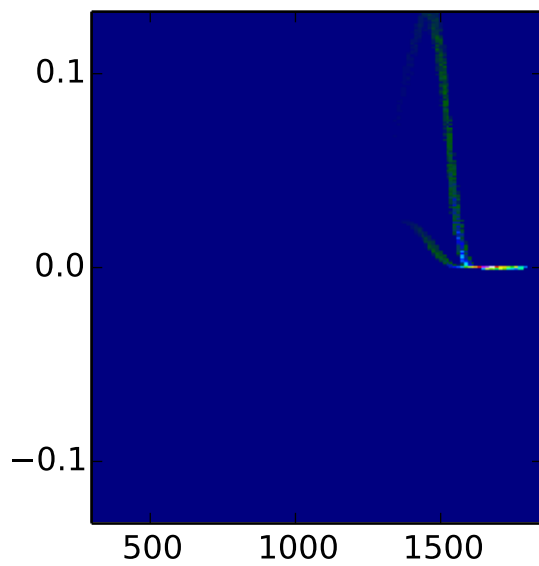


# Edge C3H7 $\rightleftharpoons$ CH2O

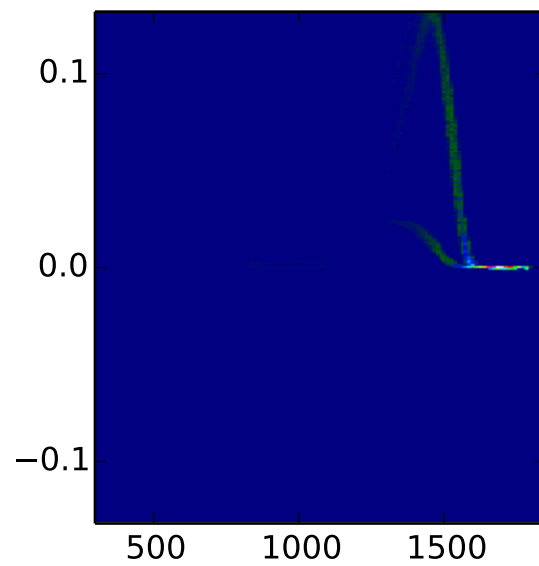
Curvature: -6000 : -5200



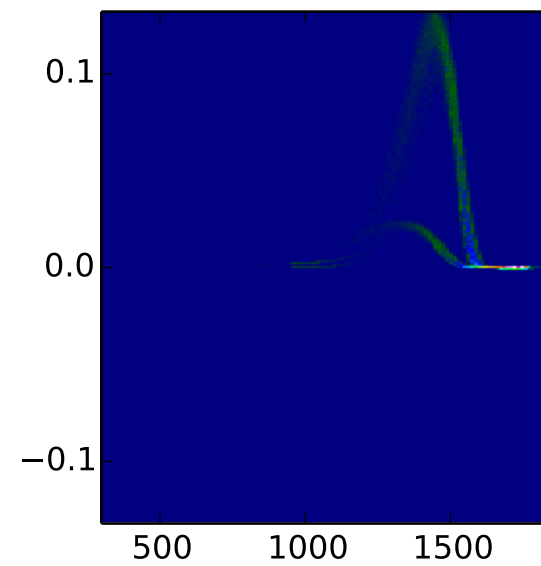
Curvature: -5200 : -4400



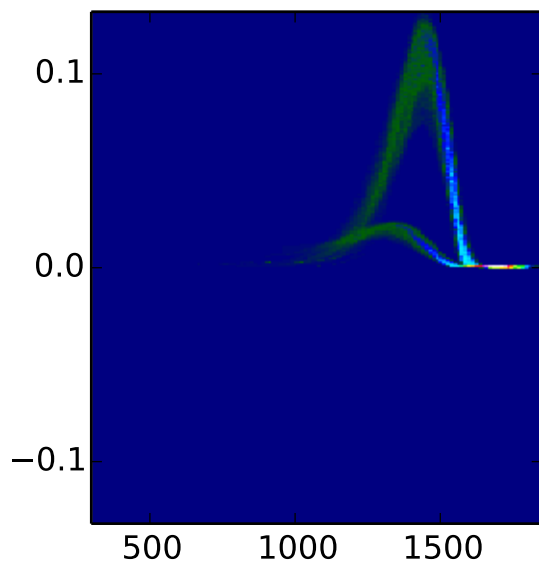
Curvature: -4400 : -3600



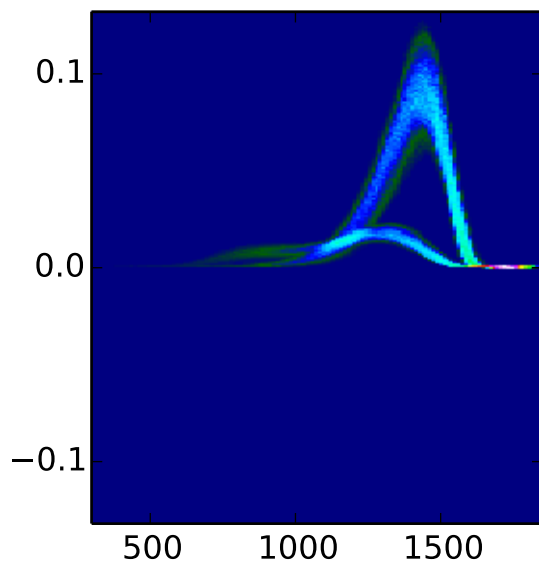
Curvature: -3600 : -2800



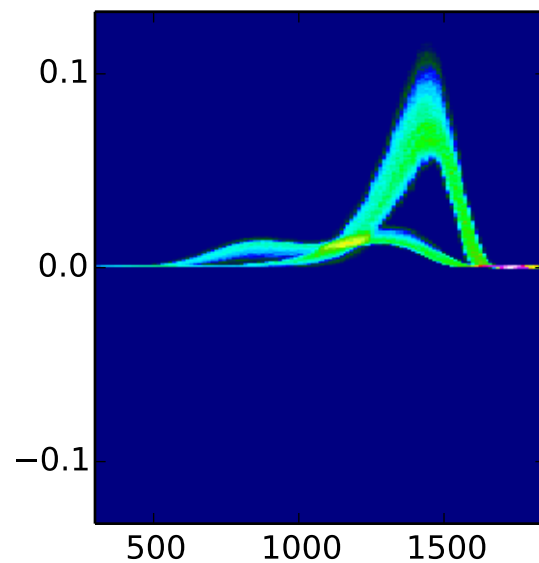
Curvature: -2800 : -2000



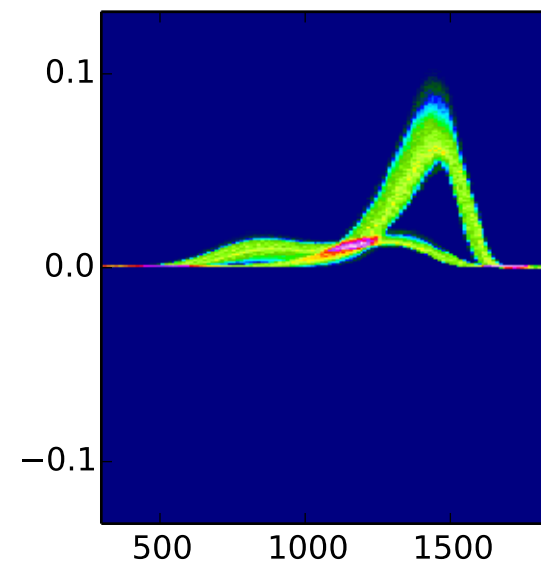
Curvature: -2000 : -1200



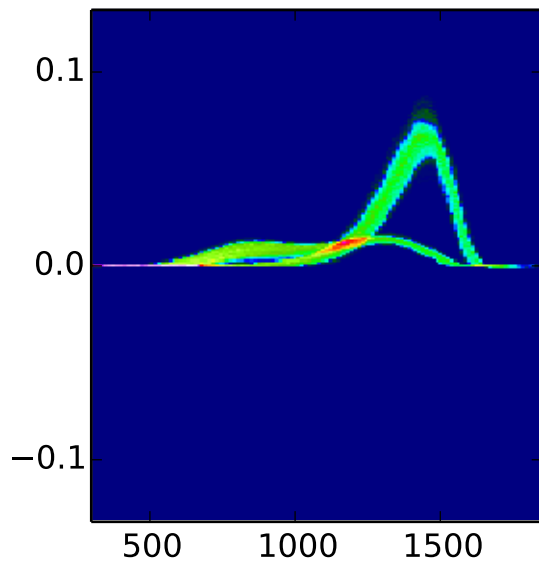
Curvature: -1200 : -400



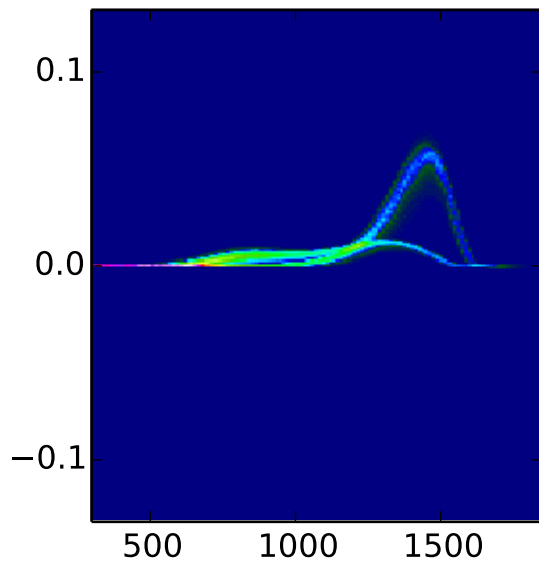
Curvature: -400 : 400



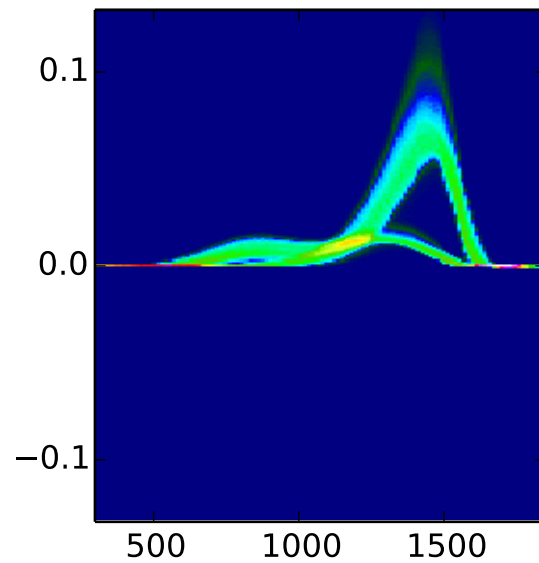
Curvature: 400 : 1200



Curvature: 1200 : 2000



Sum



# Edge C3H7 $\rightleftharpoons$ CH2OH

