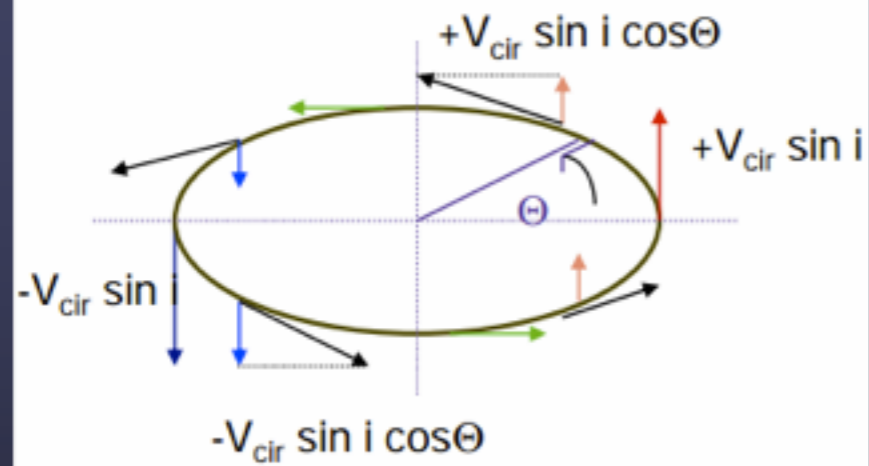


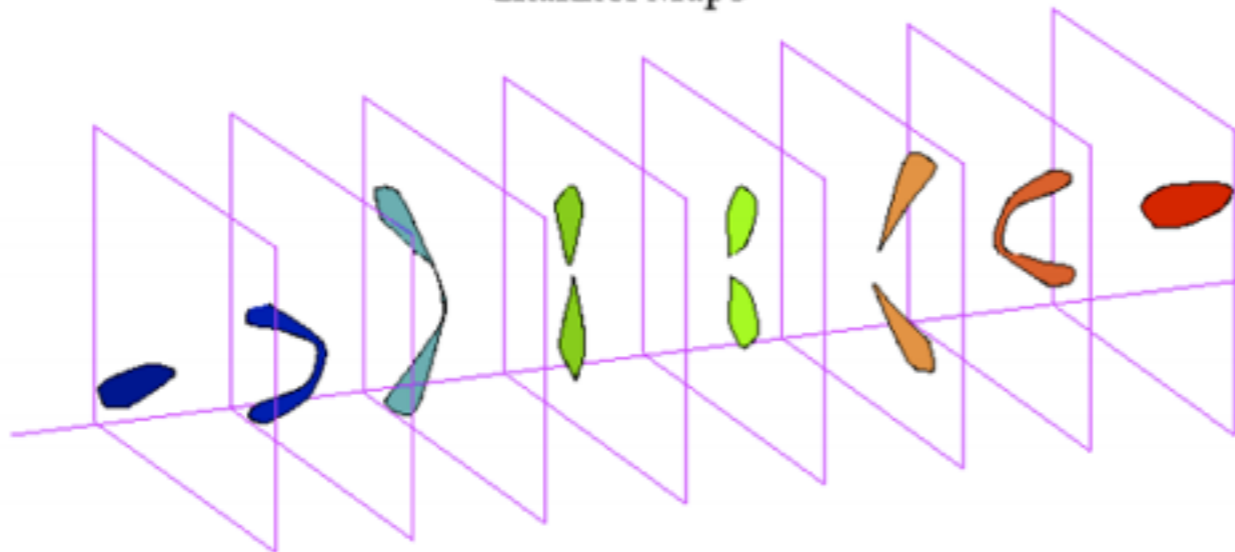
SPECTRAL LINE ANALYSIS

MOMENTS IN CASA

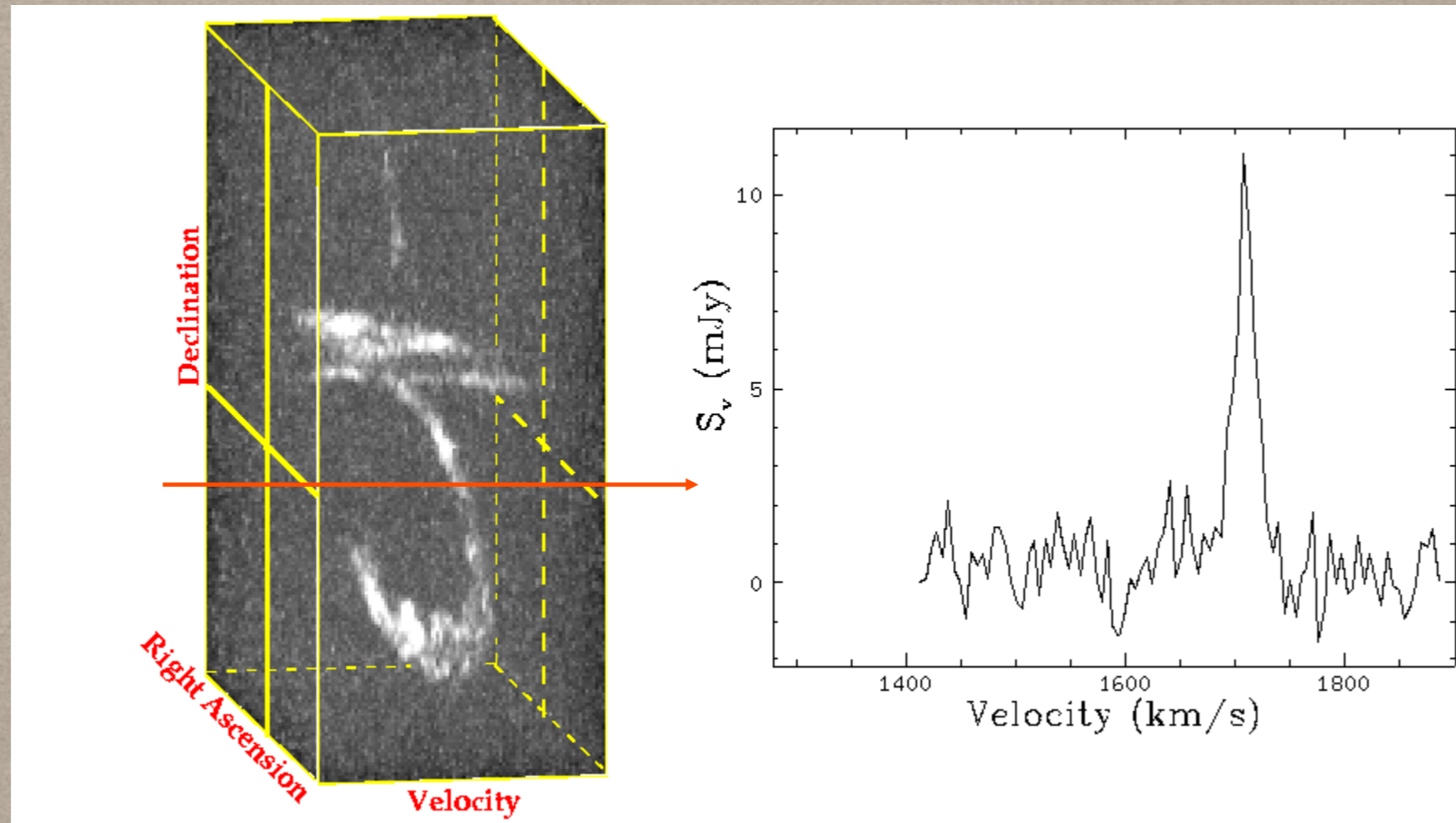


Mean Velocity Field

Channel Maps

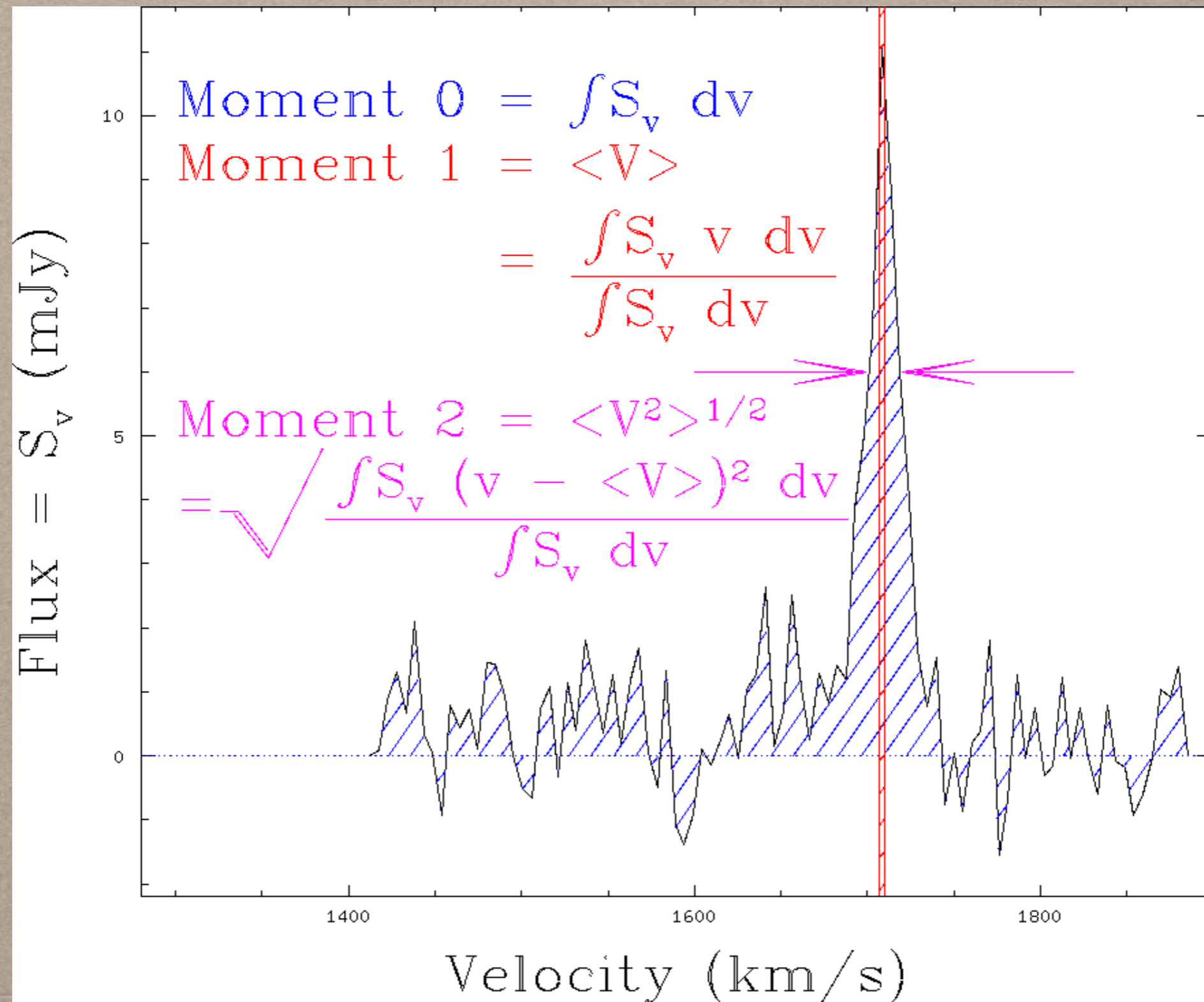


THE CUBE



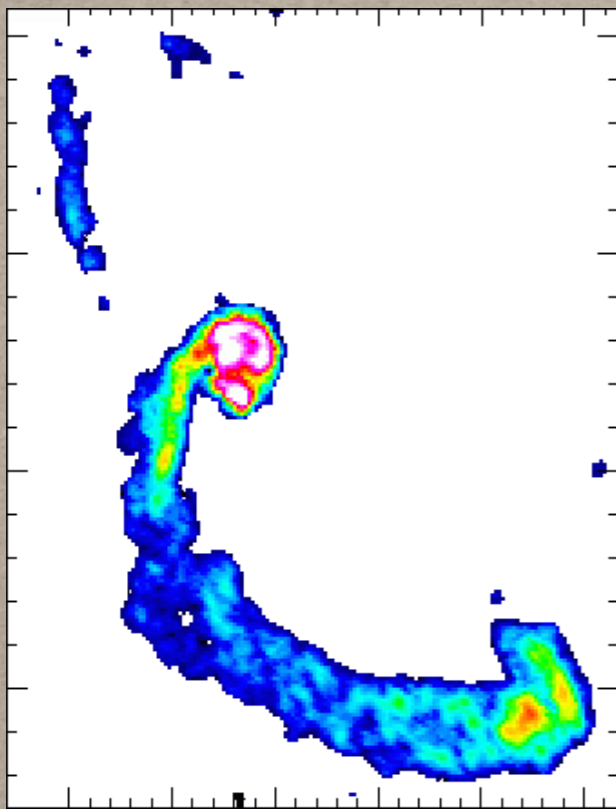
- i) **1-D Slices along velocity axis = line profiles**
- ii) **2-D Slices along velocity axis = channel maps**
- iii) **Slices along spatial dimension = position velocity profiles**
- iv) **Integration along the velocity axis = moment maps**

THE CUBE



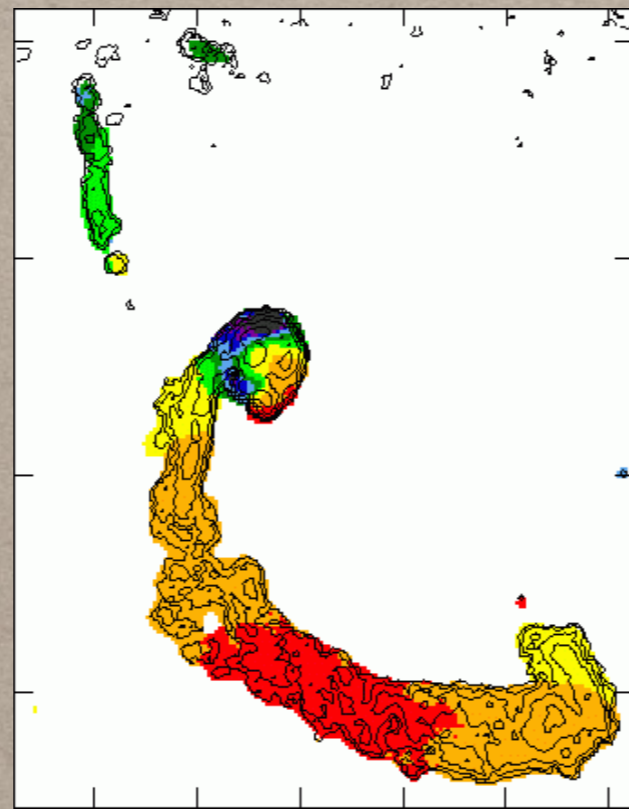
0 moment

Integrated Flux



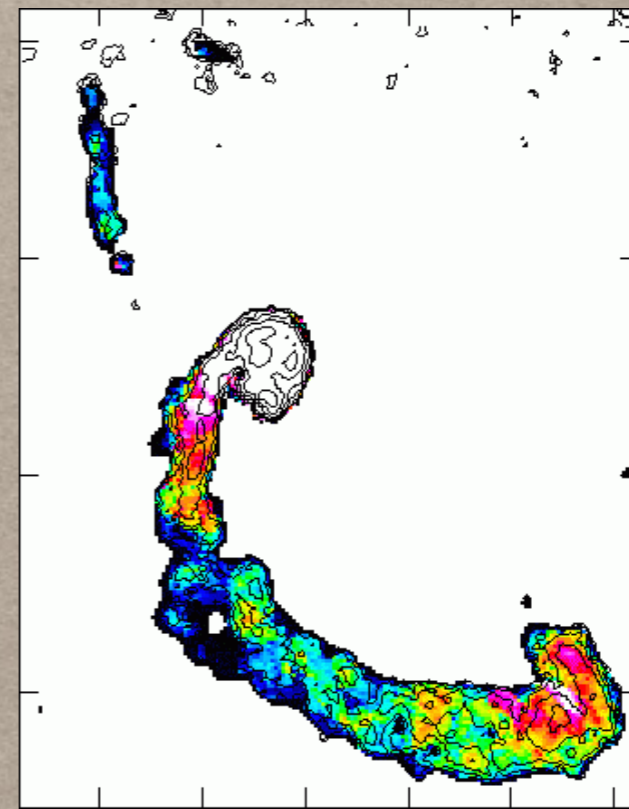
1 moment

Mean Velocity

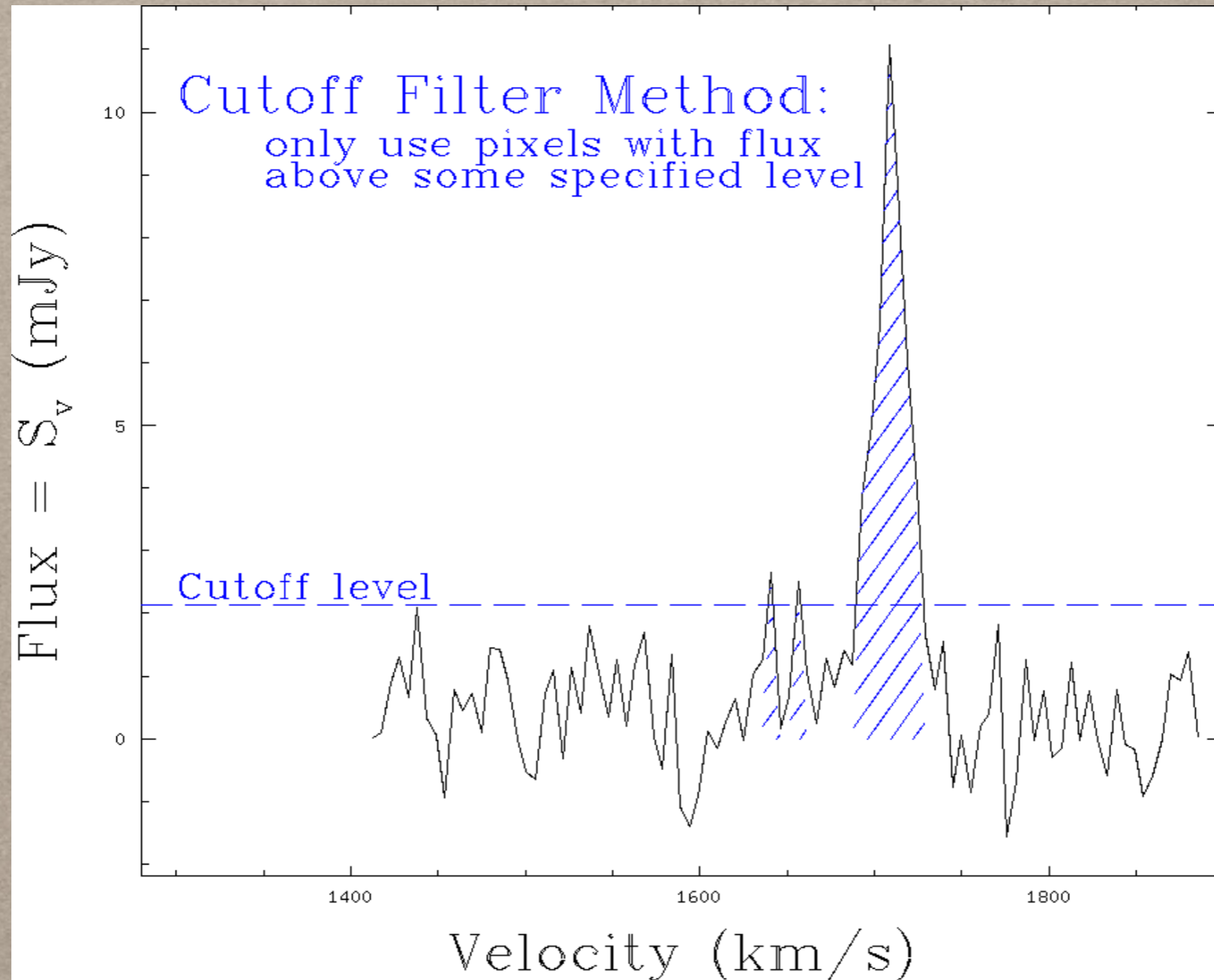


2 moment

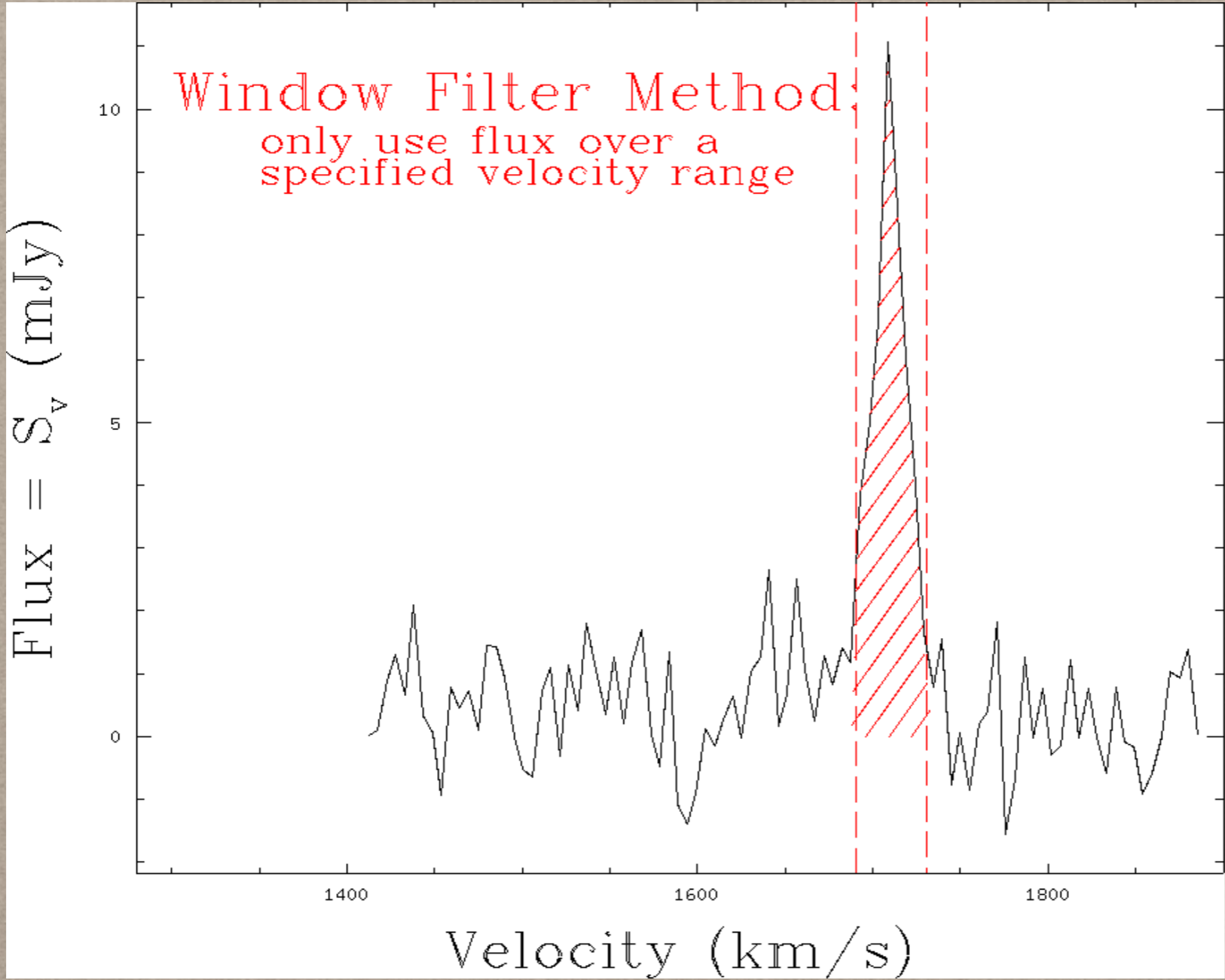
Velocity Dispersion



CUTOFF LEVEL



WINDOW



IMMOMENTS TASK

- input parameter
 - imagename= ""
 - chans= '15~30'
 - moments = [0,1,2]
 - box = '38, 38, 90, 90'
 - axis = 'spectral'
 - includepix = [0.0045, 10000]
 - outfile = 'blablabla.m0/1/2'