



**Figure 11:** The chopper clips a cobalt cluster beam. Eighteen mass spectra are presented taken at different chopper times. The Time of Flight axis goes from zero to 50  $\mu\text{s}$  and covers clusters up to  $\text{Co}_{85}$ . When time is too short or too long the blade misses the beam so everything is transmitted. Depletion happens when timing is right and the transmitted signal in the middle is due to the slit in the blade of the chopper.