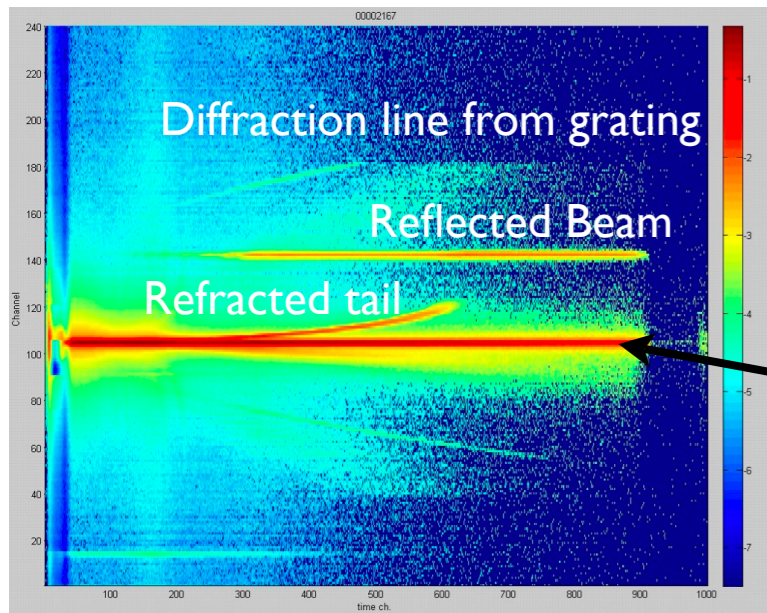
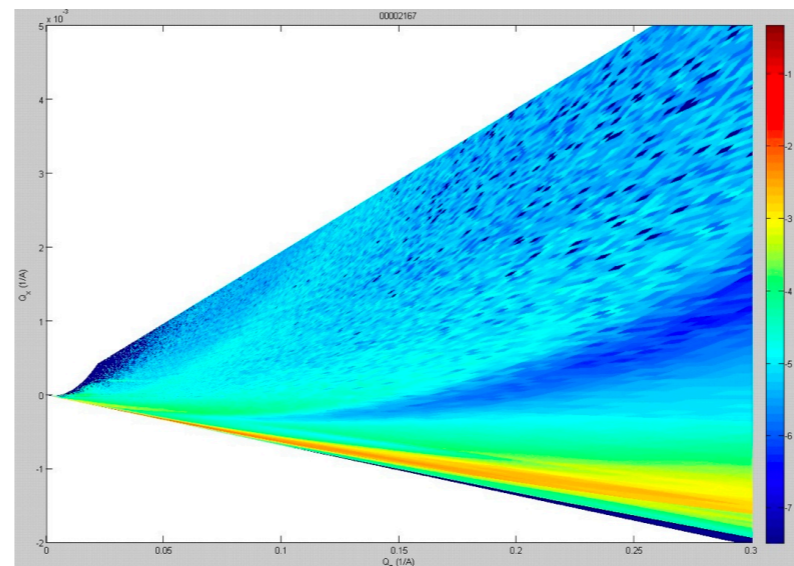


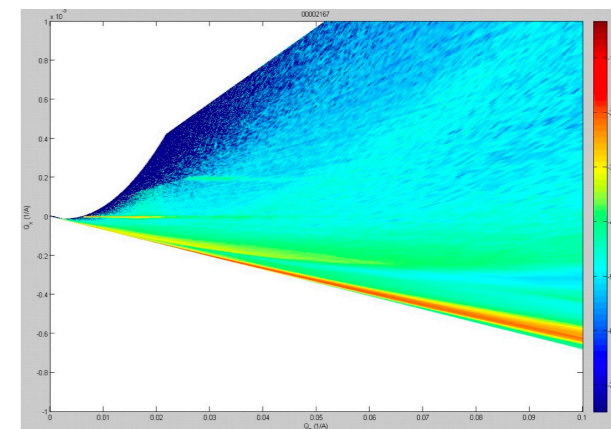
Unscaled x-y axes



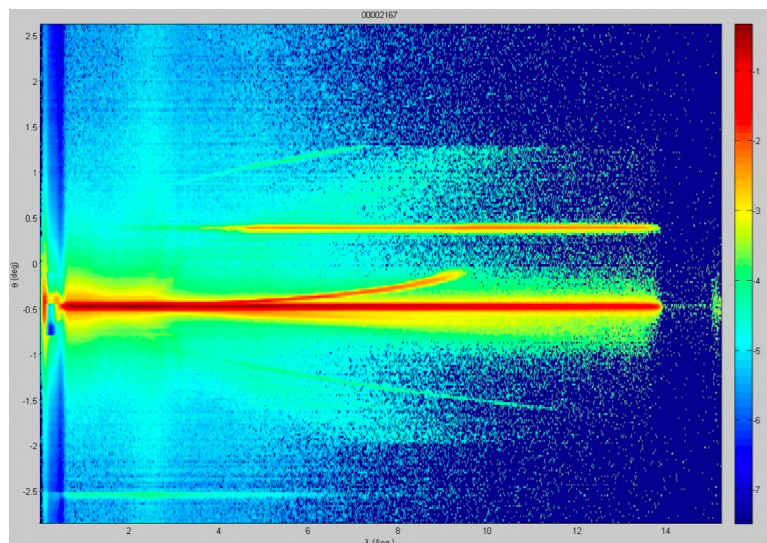
$$Q_z = \frac{2\pi}{\lambda} [\sin(\theta_f) + \sin(\theta_i)] \quad Q_x = \frac{2\pi}{\lambda} [\cos(\theta_f) - \cos(\theta_i)]$$



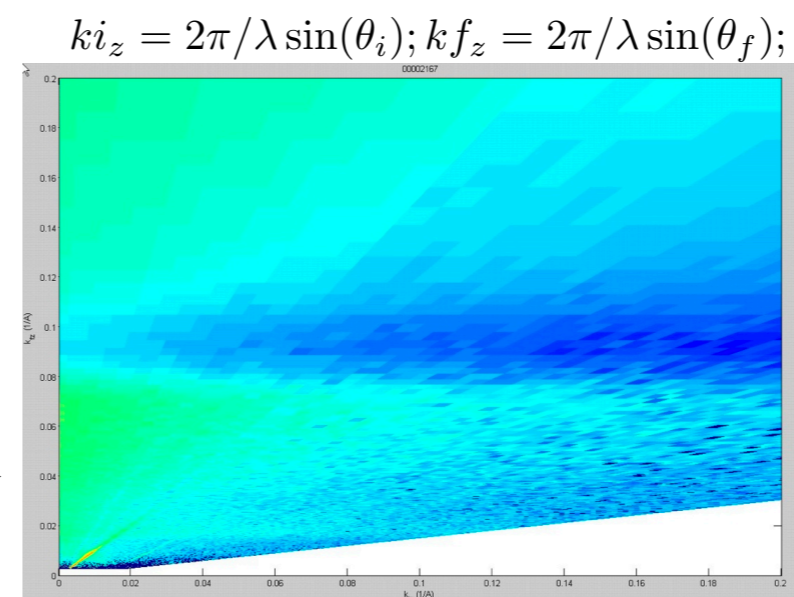
Zoom to show reflected beam and diffraction line in Qx-Qz



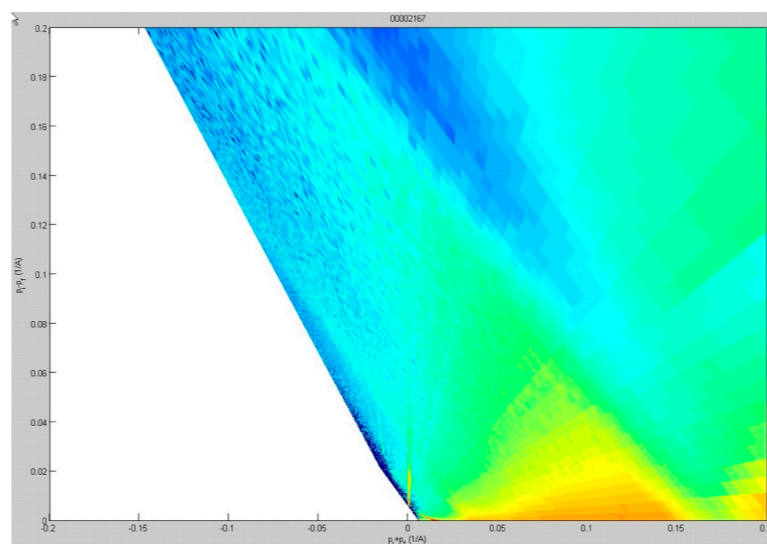
↓
Scale x,y axes
↓
theta vs lambda



May now chose any of these non-linear



$$p_i + p_f = k_{i_z} + k_{f_z}; p_i - p_f = k_{i_z} - k_{f_z}$$



This data is from Polref Run 2167, run 2168 is also similar.

Here theta_i = 0.4 deg.

Once the color map representations are produced we would then take various cuts through the data of interest and save it to x,y,e text file for data fitting.