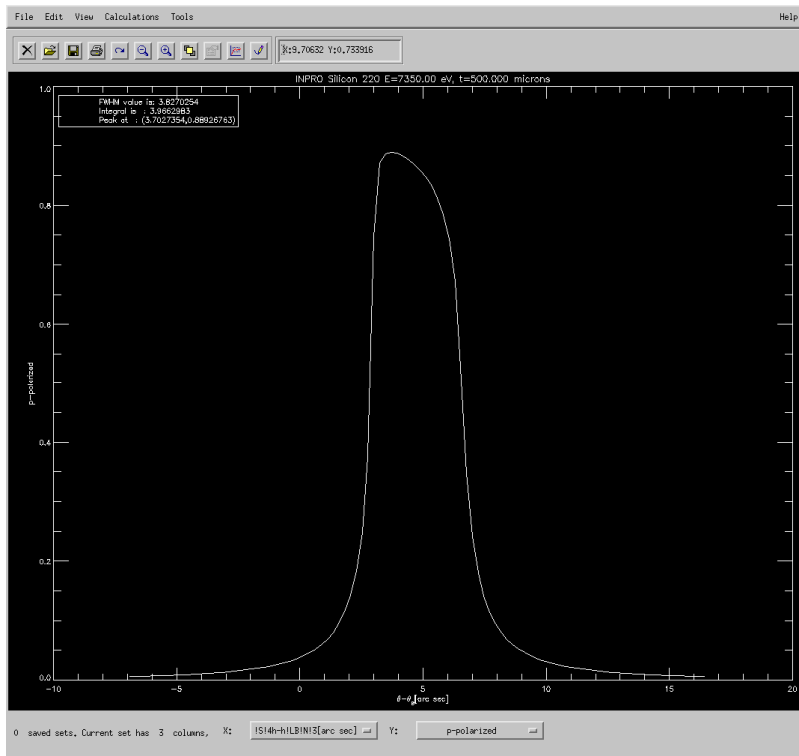


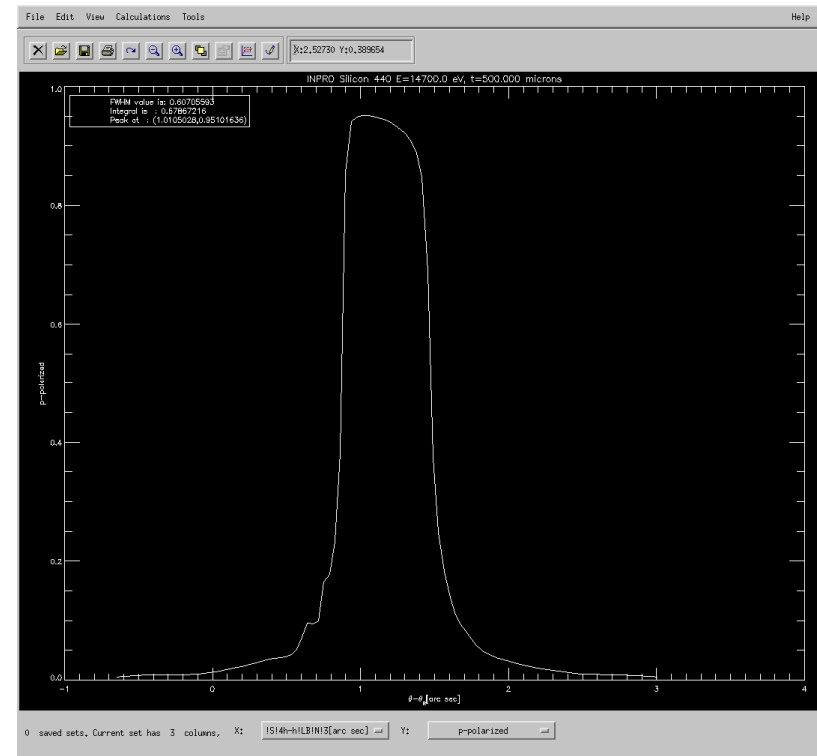
Second harmonics on Si 220

Eric Dufresne

Si (220) at 7.35 keV (left) vs Si (440) at 14.7 keV (right)

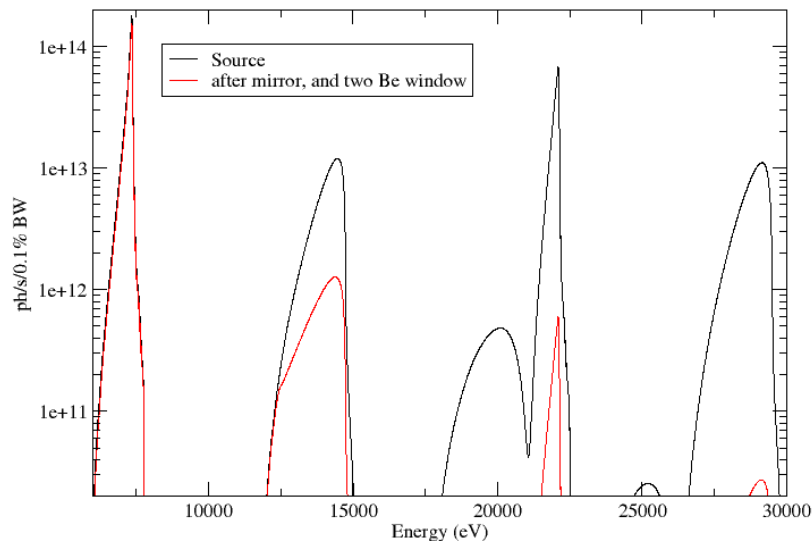


FWHM = 3.827 arc sec



FWHM = 0.607 arc sec

Expected background from 2nd harmonics



- Ratio of Darwin width is x6.3 for 220 vs 440 P polarized
- 2nd harmonics factor 155/1.3 (x120) lower on spectrum, so factor 120x6.3 =756 lower
- 3rd harmonics a factor 155/0.58=267 lower after optics. Didn't compute Si 660 Darwin width.