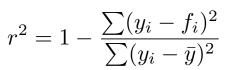
## E465 HPGe resolution calibration

- 5 grey points not included due to Doppler broadening
- 7 black points for linear fit, not a great fit
- $^{56}$ Fe(n, $\gamma$ ) DE and SE behaviour not as expected
- FWHM at 1332 keV: (17.42 ± 0.34) keV compared to 1.88 keV
- didn't compare linear fit due to different ranges



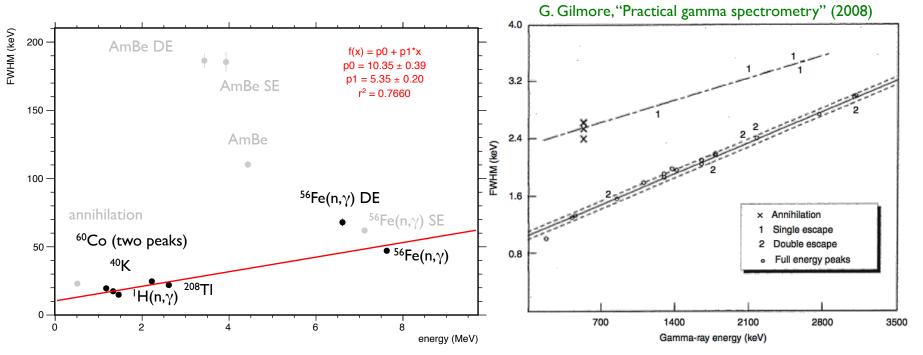


Figure 7.6 FWHM of full energy, single escape, double escape and annihilation peaks as a function of energy, demonstrating the anomalous width of single escape and annihilation peaks (the detector used had a FWHM at 1332.5 keV of 1.88 keV)