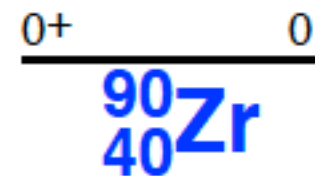
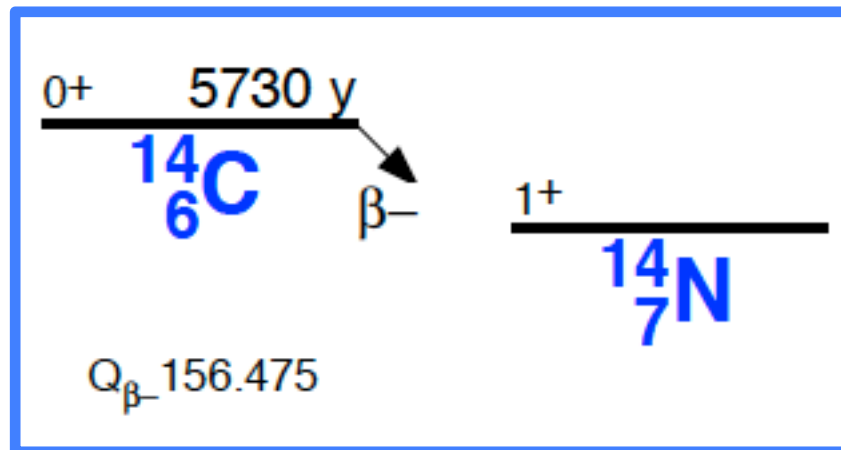
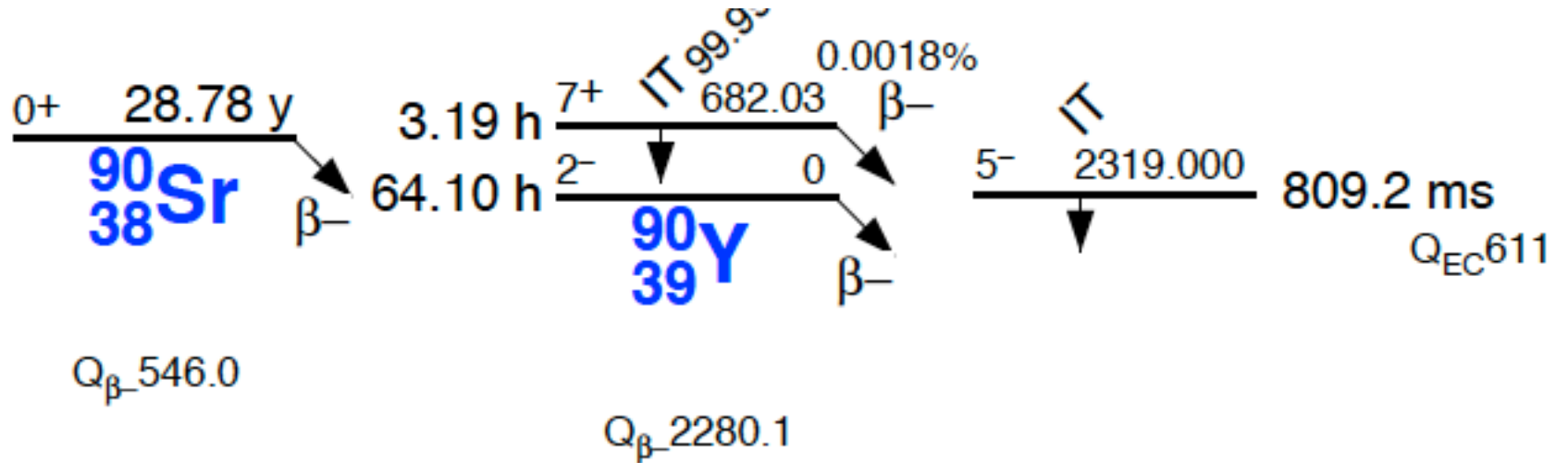


SLIMER Status – July 2012

Steve Elliott and Mary Kidd

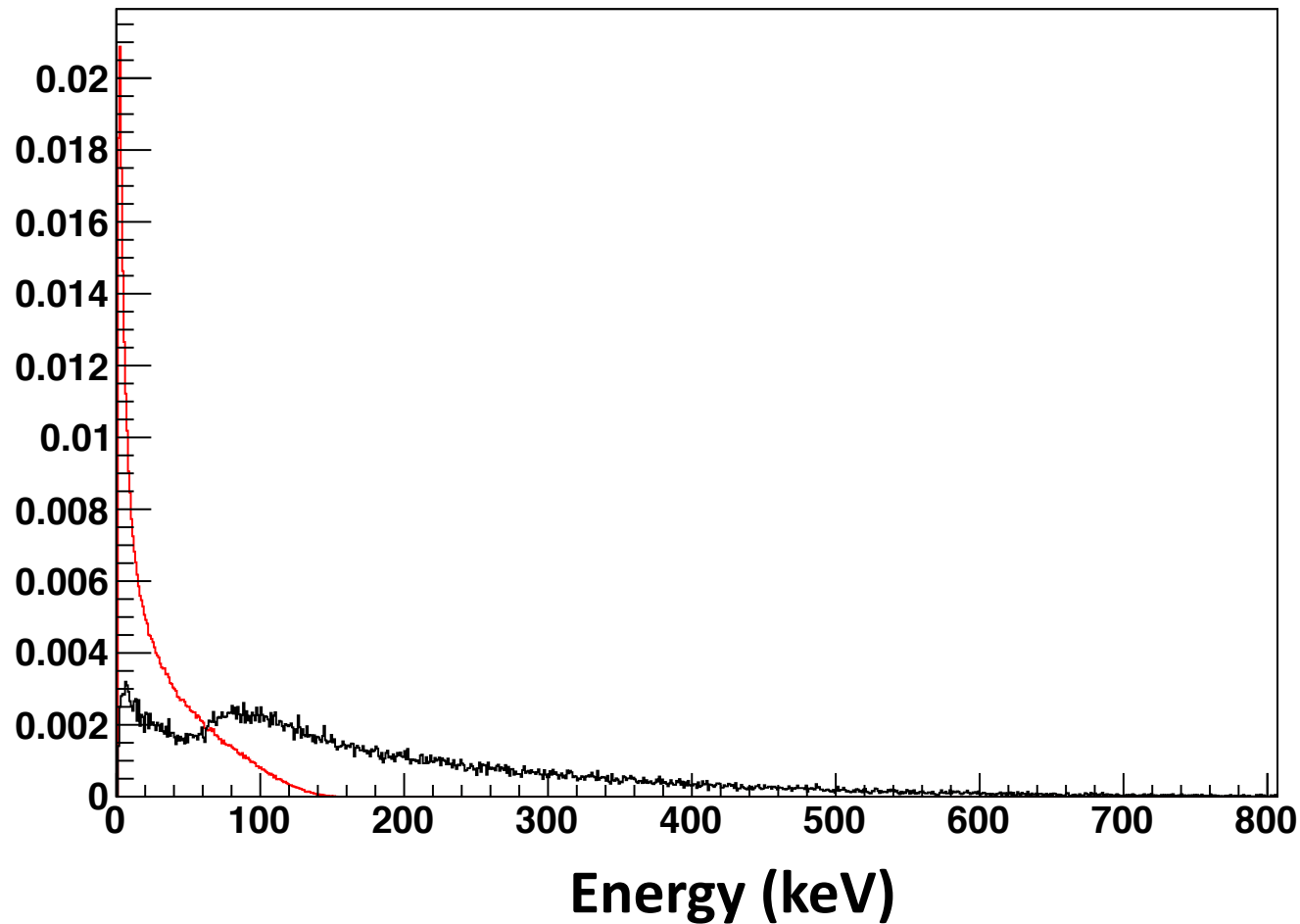
Note that Suhas Pol has joined our effort as of this week.

Sr-90 decay, C-14 inset



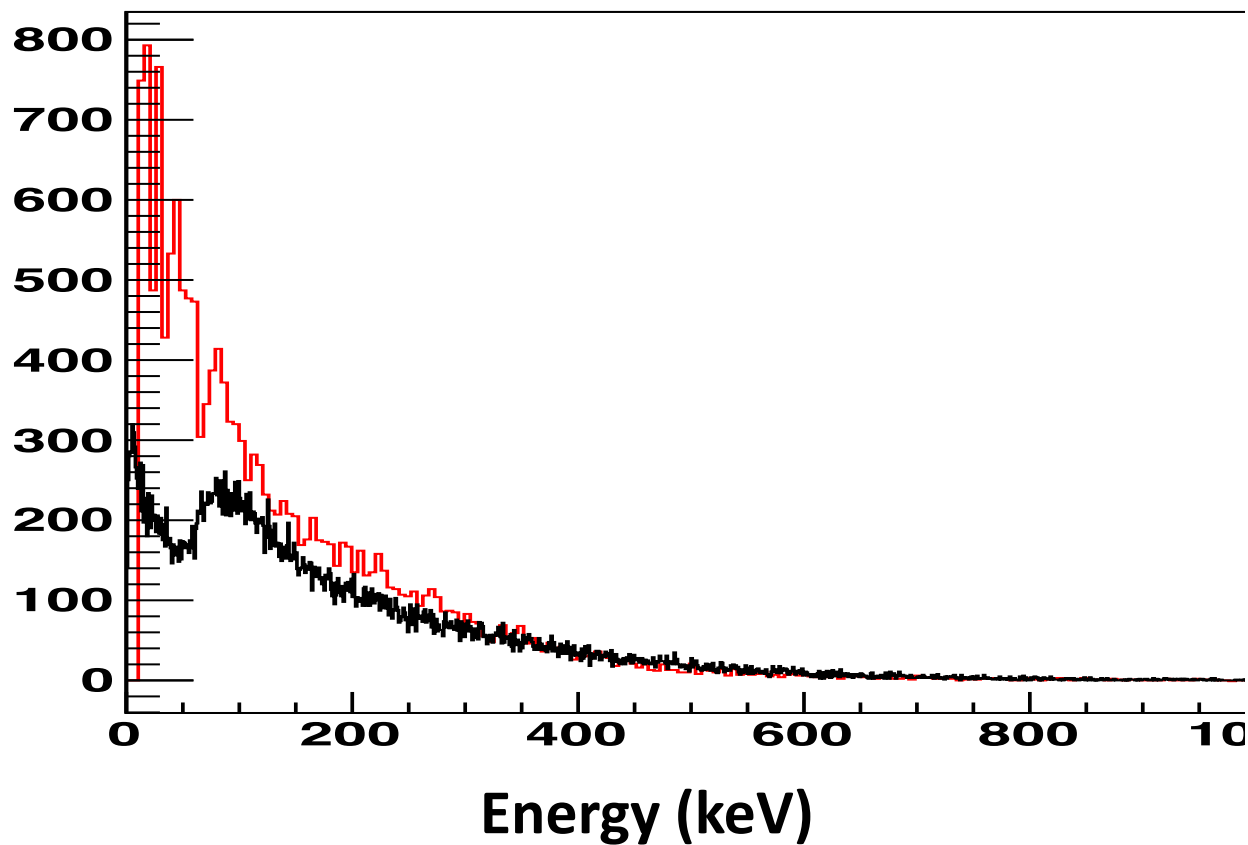
Simulation of $^{90}\text{Sr}/^{90}\text{Y}$ (black) and ^{14}C (red)

Normalized Spectrum of Deposited Events



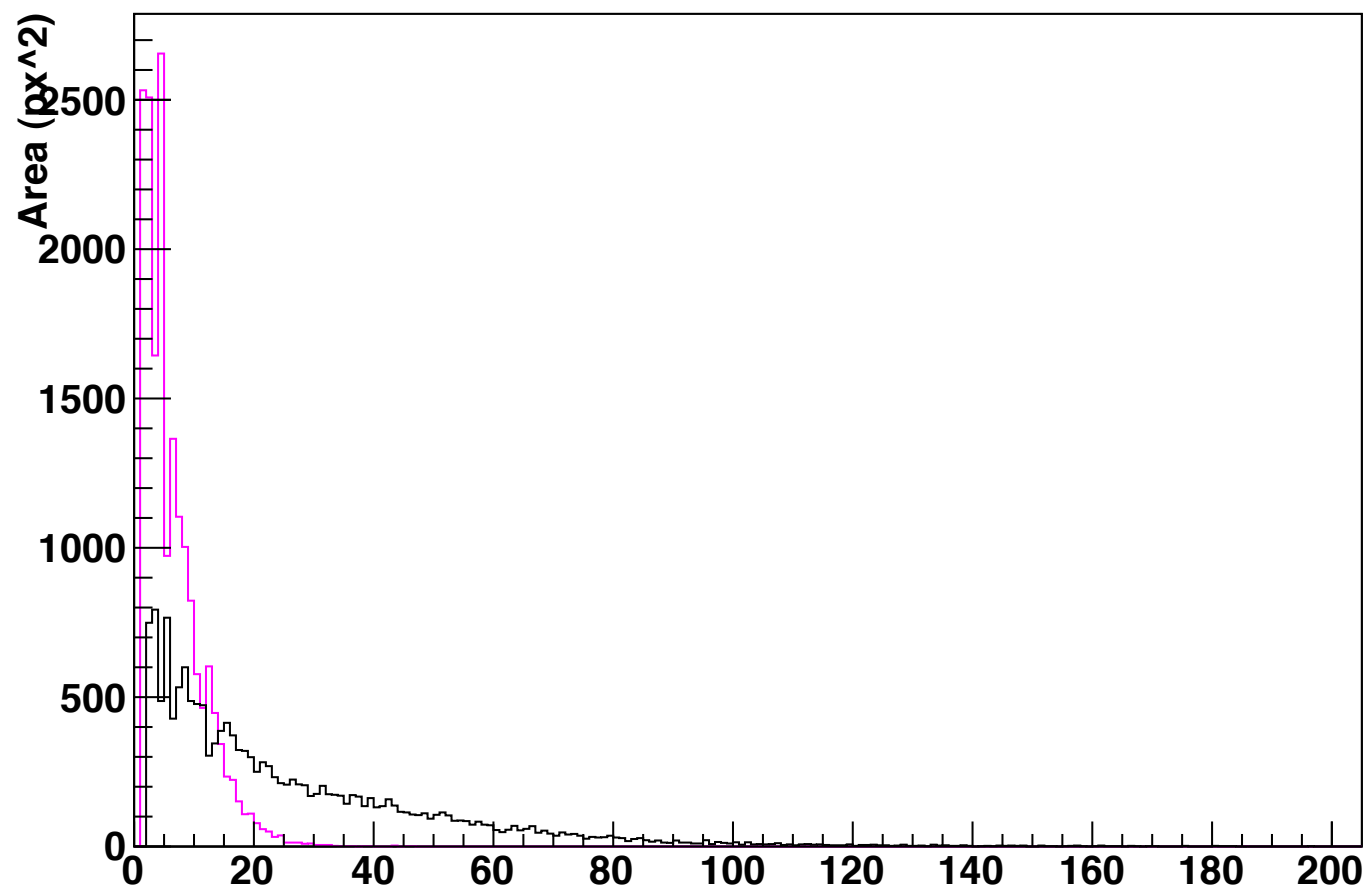
Simulated $^{90}\text{Sr}/^{90}\text{Y}$ (black) and Measured Spectra

Measured spectra scaled to “fit by eye”



Sr minus background (black) and background (red)

Measured spectra, x axis is in units of area



Status

- We can easily see alpha particles.
- We can easily see beta particles from Sr/Y, but the Y spectrum extends to 2.28 MeV.
- The C endpoint is 156 keV.
- The noise spectrum is similar in shape and endpoint to where we expect the C to lie.
- With low rate C data, we do see a very slight excess in rate, but not clear enough for any analysis yet.
- Understanding the noise is our present focus.