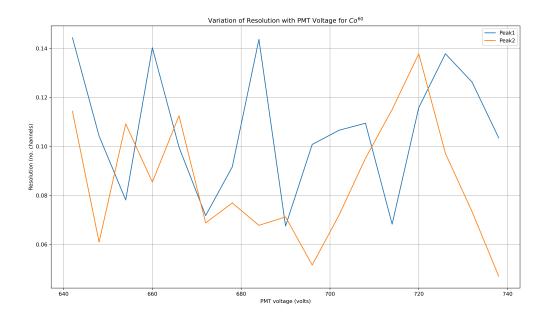We vary the PMT voltage over 642MeV to 738MeV to get the point where the resolution is the minimum. The resolution varied over the PMT using the gaussian is the Full Width at Half Maximum(FWHM) divided by the Centroid of the peak. The FWHM of a gaussian is given as $2\sqrt{2\ln 2}\sigma$

Variation of Resolution with PMT Voltage for Co^{60}

The lowest point of resolution comes out near 690MeV which is our operating volatge. Thus we have verified that we are working at optimum operating voltage.