

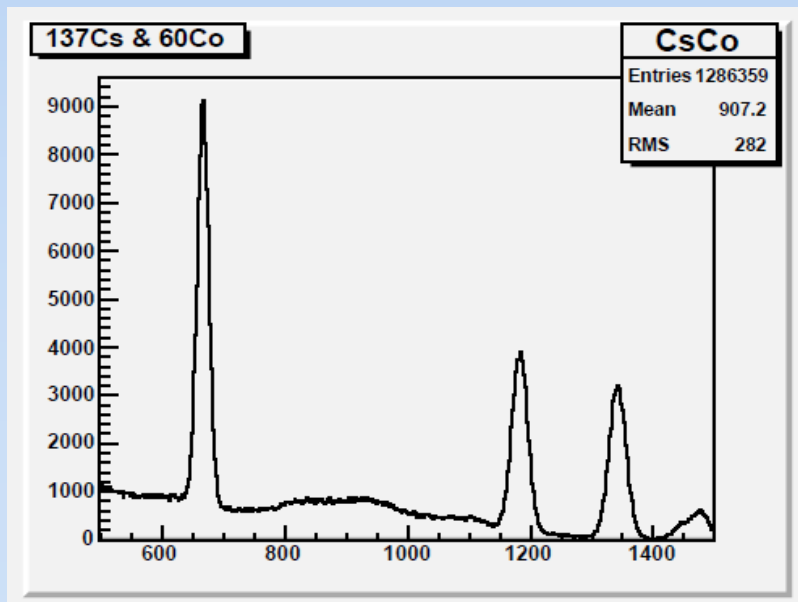
# LaBr<sub>3</sub> measurements at IPNO (France)

→Measurements with 2 PMTs:

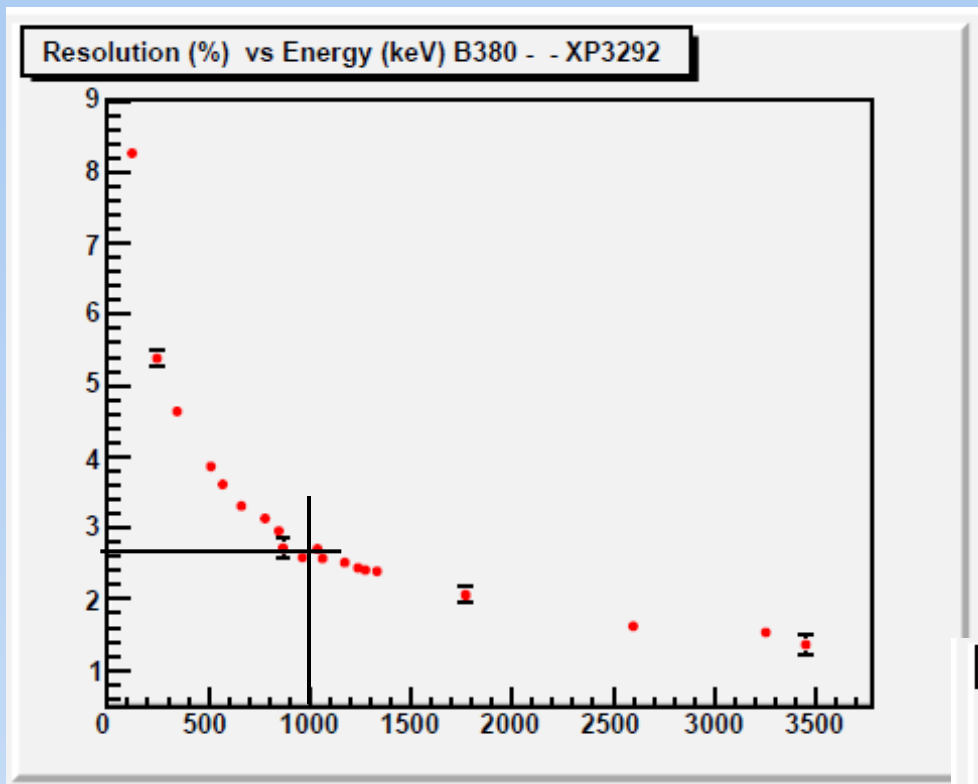
→XP5300B - high quantum efficiency, larger entry window than the crystal

→XP3292 - same size as LaBr<sub>3</sub> exit window

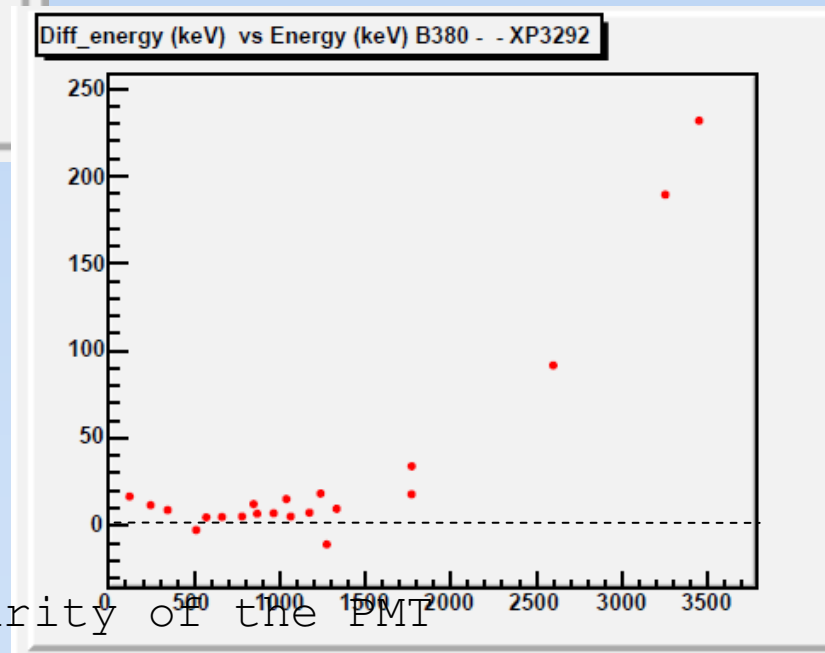
→ Energy range : 121 keV - 3450 keV



Energy resolution @ 661 keV: 3.31 %

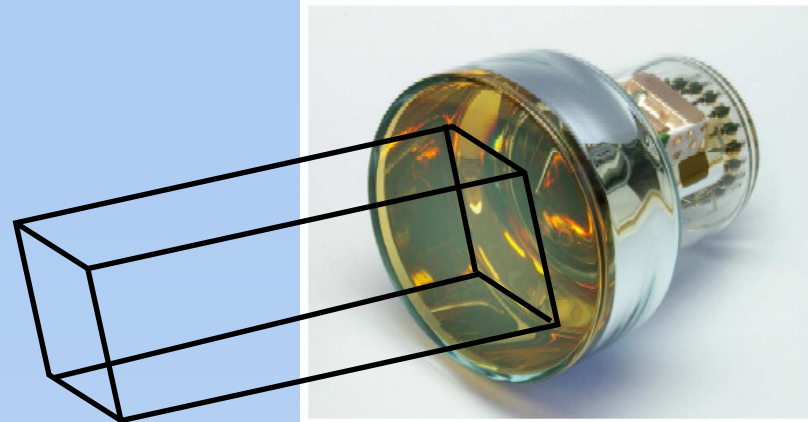
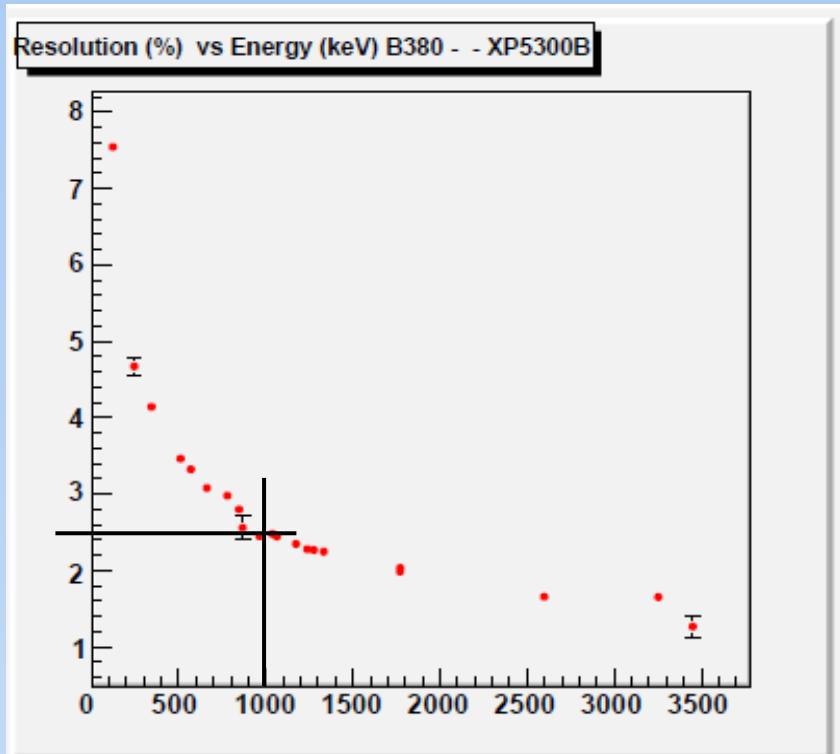


$\Delta E \sim 2.7\% @ 1 \text{ MeV}$

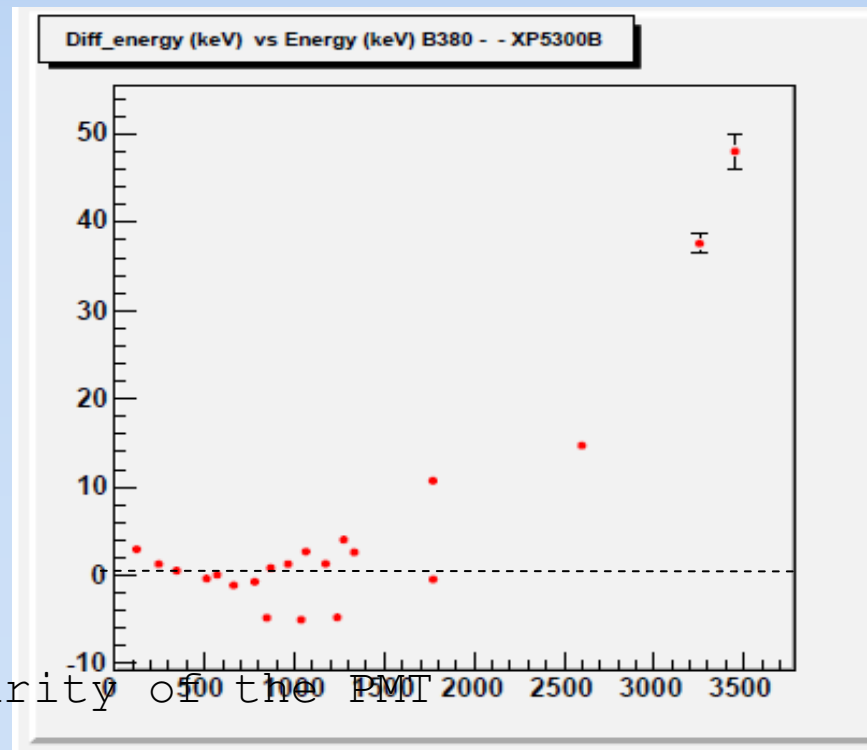


Care should be taken for the linearity of the PMT

Energy resolution @ 661 keV: 3.08 %



$\Delta E \sim 2.5\% @ 1 \text{ MeV}$



Care should be taken for the linearity of the PMT