Energy resolution of the scintillator --- Fit curve:  $c \cdot x^n = 0.021 \cdot x^{-0.567}$ Measured values resolution Energy Determined gain from fit:  $(1.203 \pm 0.006)$  keV/channel  $6 \times 10^{-1}$  $3 \times 10^{-1}$  $4 \times 10^{-1}$  $10^{0}$ Energy [MeV]