Weekly Report 2017-12-01

Kim, Hanbeom

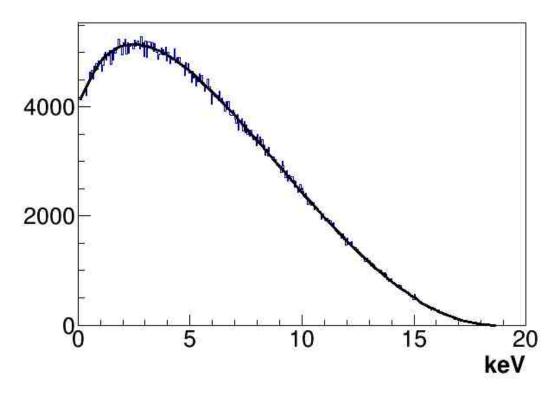
Geant4 Simulation

$$N(T) = C_L(T)F(Z,T)pE(Q-T)^2 \ F(Z,T) pprox rac{2\pi\eta}{1-e^{-2\pi\eta}}.$$

- Fermi function is now considered
- Electron depth seems not to change a lot...

Geant4 Simulation

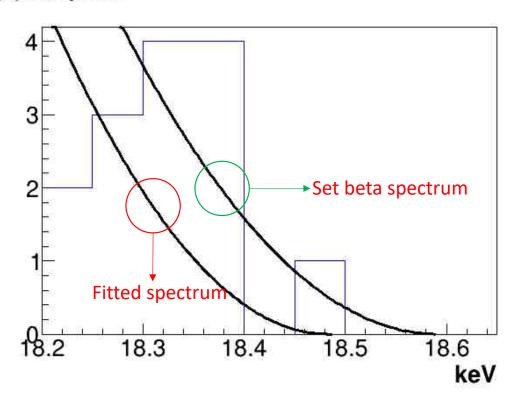




Well fitted to a beta spectrum $m_{\nu}^{\sim}10^{-6}$ while zero in given one

Geant4 Simulation

N(T)-endpoint



Q=18.591 keV in given beta spectrum

-> (18.4836±0.04358) keV

Due to the parameter setting, fit spectrum has Q: 18.45~18.59 keV