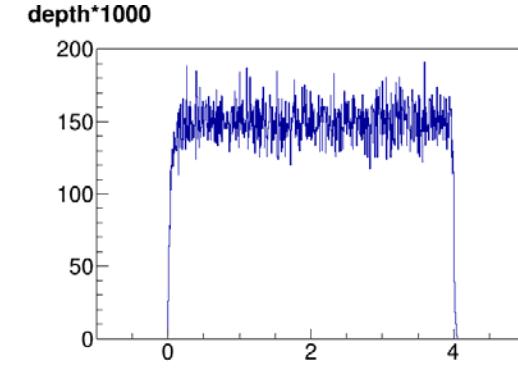
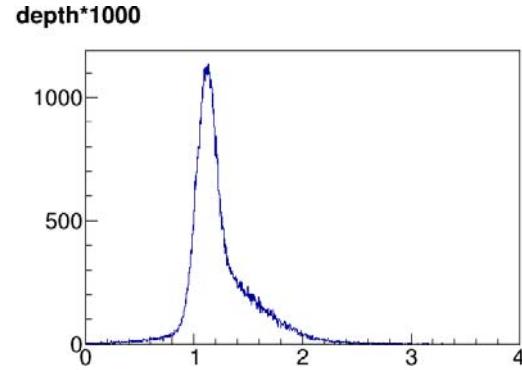
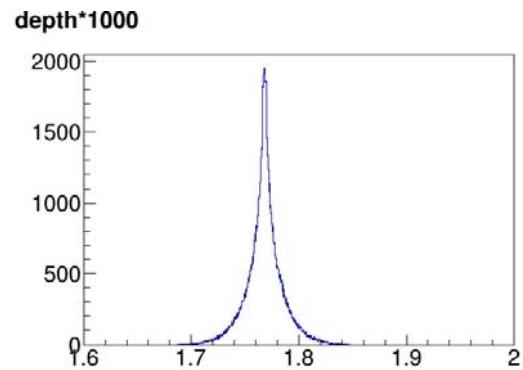


Geant4 Simulation: Last week

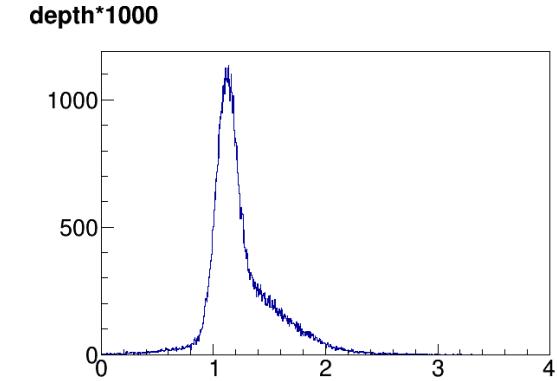
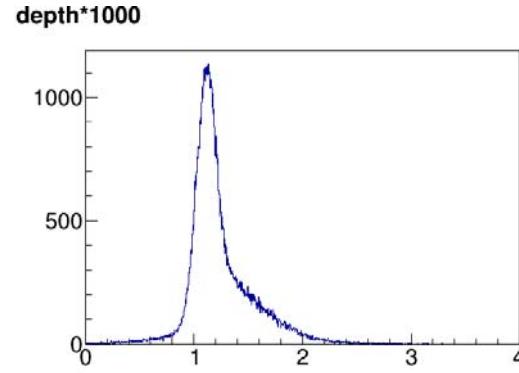
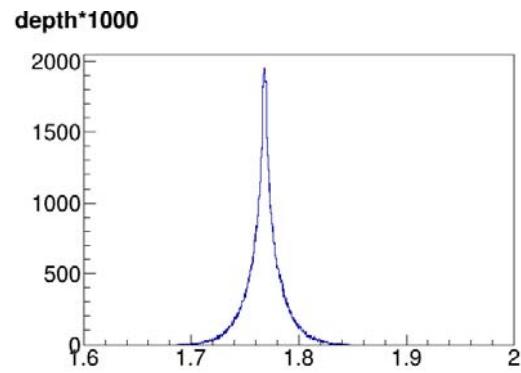


Electron movement
(Range: 0.088 μm)

+ Triton implantation \rightarrow

?????

Geant4 Simulation: modified version

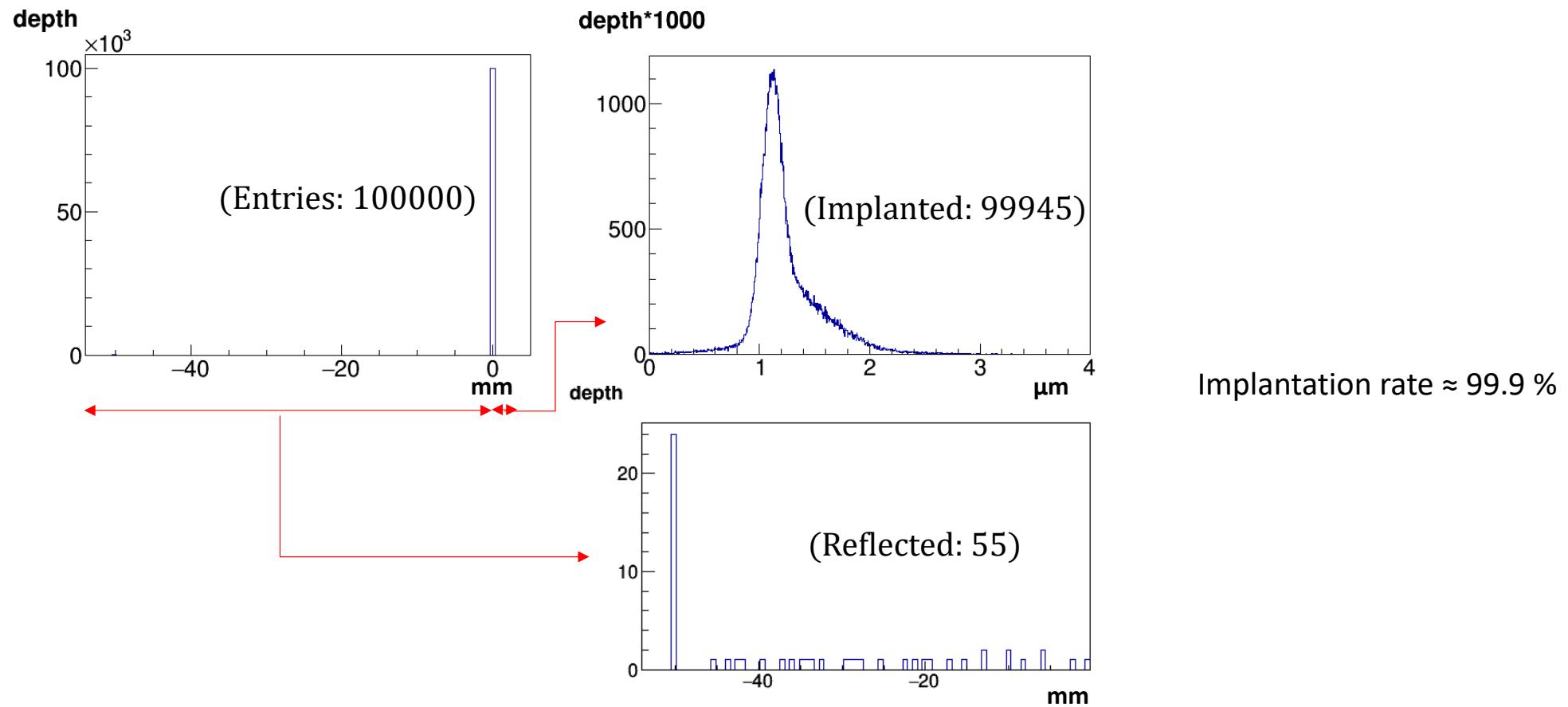


Electron movement

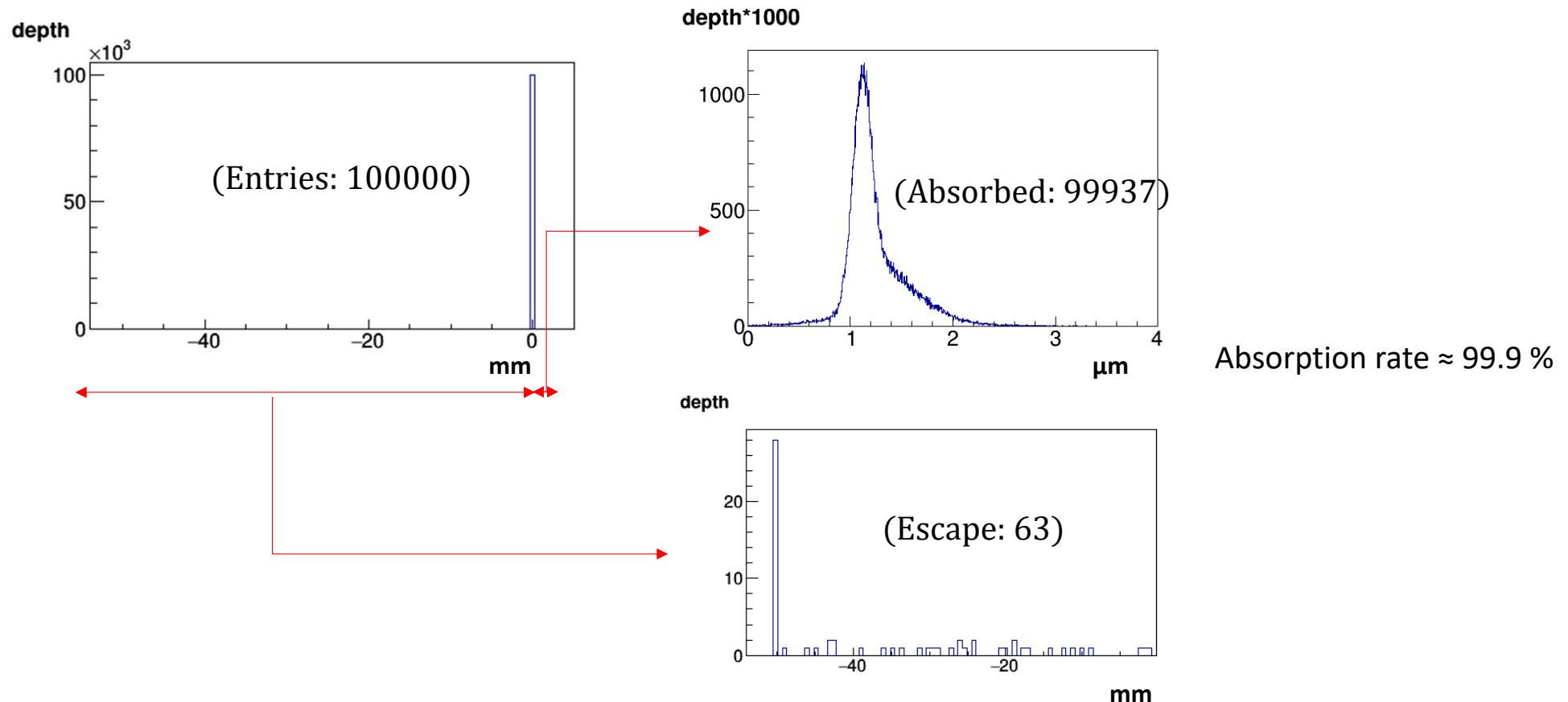
+ Triton implantation →

beta particle depth distribution

Geant4 Simulation: Implantation rate



Geant4 Simulation: Absorption rate



Geant4 Simulation: Next Plan

- Chamber modeling
 - Example:
 - A 1.2 cm^3 irradiation cell & $1 \text{ mm}^2 \times 12.5 \mu\text{m}$ foil
 - 1 atm ${}^3\text{He}$
 - Thermal neutrons in the Slowpoke reactor
 - (L.S. Erhardt, D. Deptuck, J.P. Harrison, Nuclear Instruments and Methods in Physics Research A 444 (2000) 92-95)
- Determination of Tritium Position/Direction
 - Neutron irradiation
 - Foil position