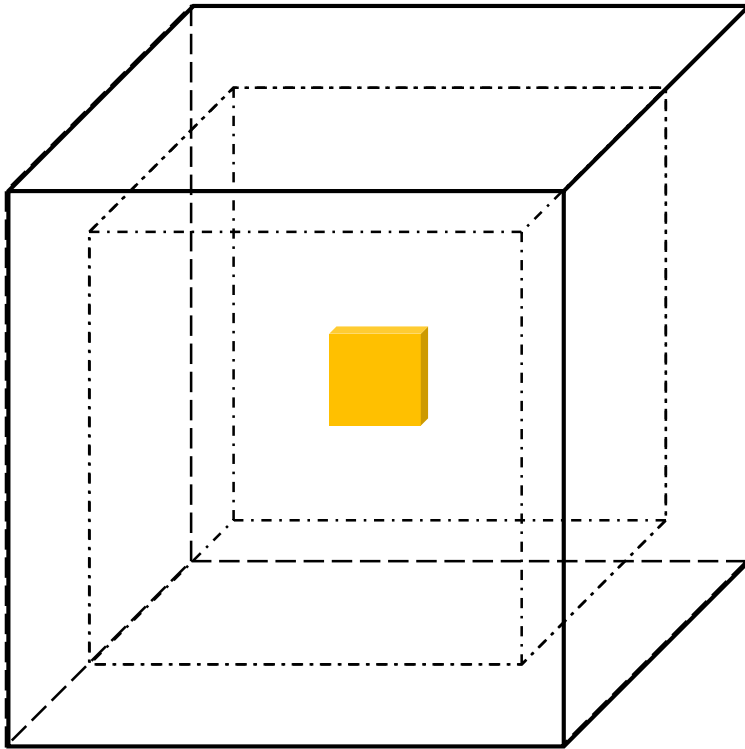


Weekly Report

2017-10-27

Kim, Hanbeom

Geant4 Simulation



$10 \times 10 \times 10 \text{ cm}^3$ Chamber
 $\rightarrow 2 \times 2 \times 2 \text{ cm}^3$

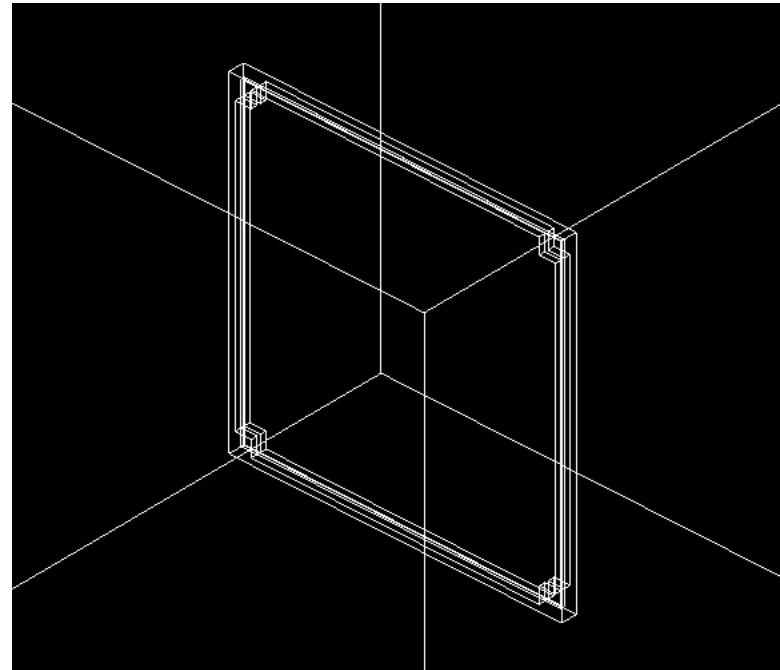
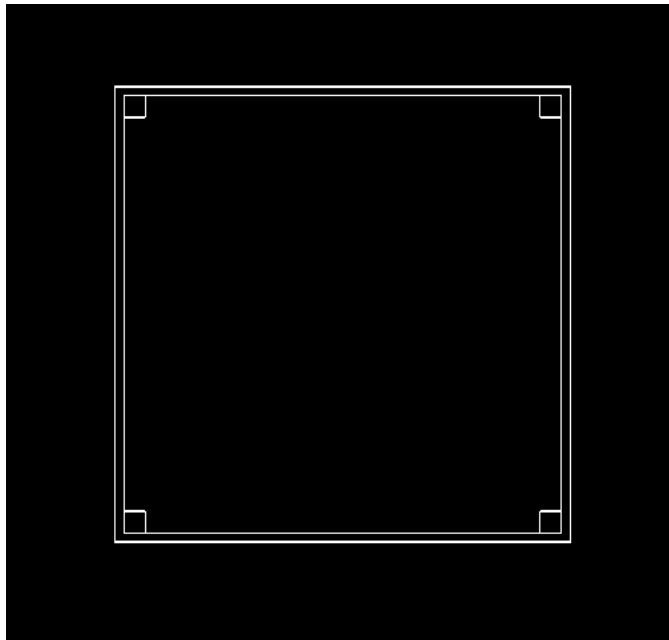
$8 \times 8 \times 8 \text{ cm}^3$ Virtual Space of ^3H Production
 $\rightarrow 1.9 \times 1.9 \times 1.9 \text{ cm}^3$

Error modified: mm \rightarrow cm

$10 \times 10 \text{ mm}^2 \times 10 \text{ }\mu\text{m}$ Gold Plate

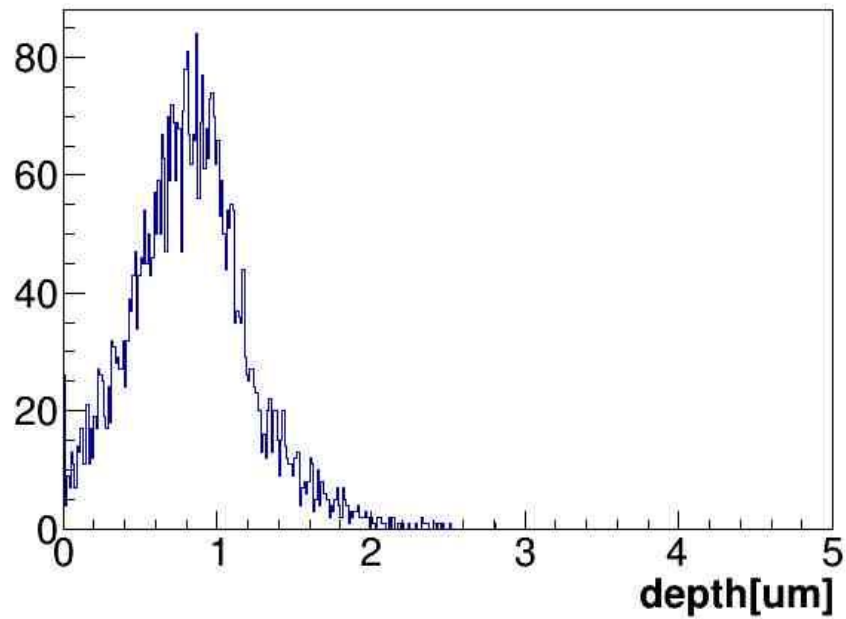
Geant4 Simulation

Edge protection made by lead is added during implantation

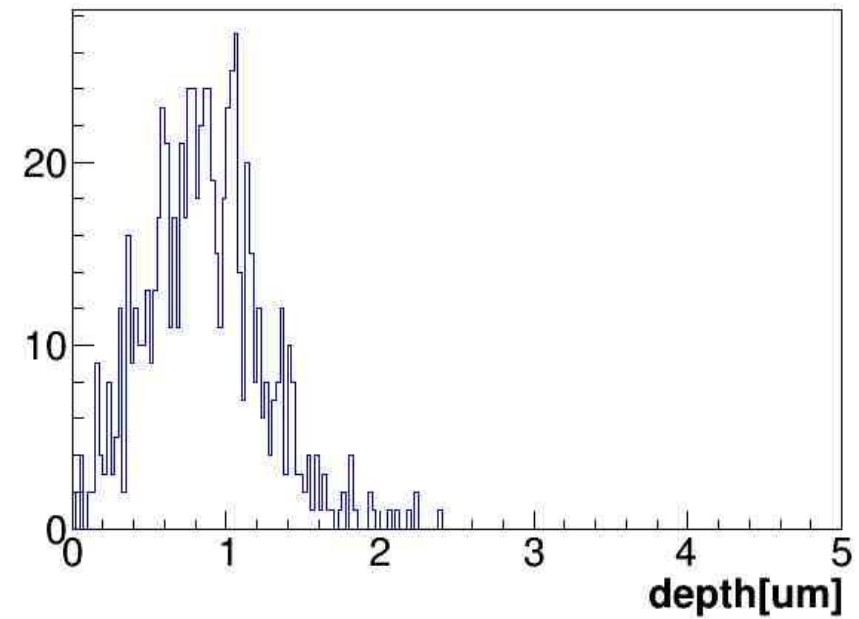


Geant4 Simulation

triton implantaion[4771/1000000]

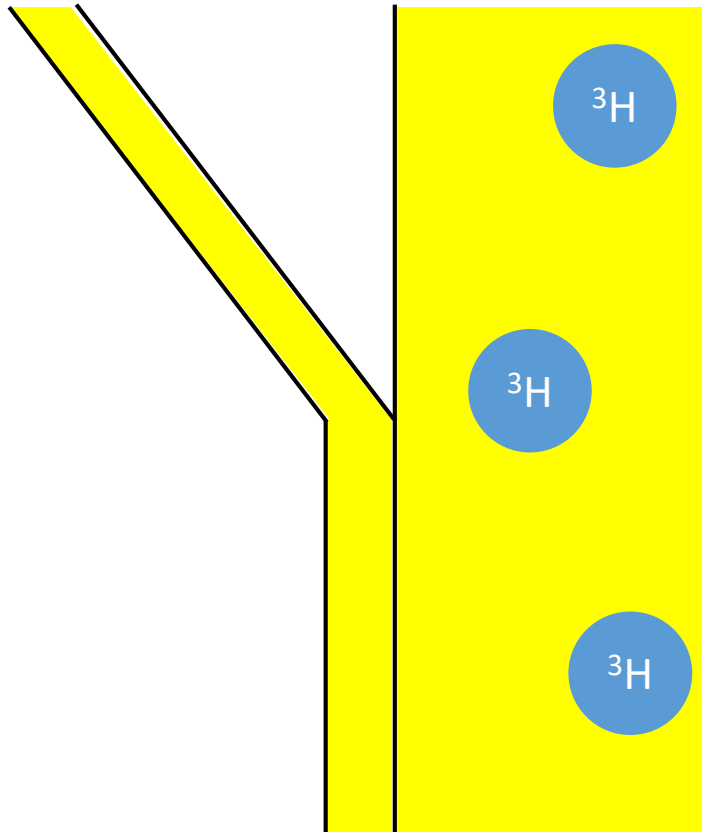


Triton Implantation [742/1000000]



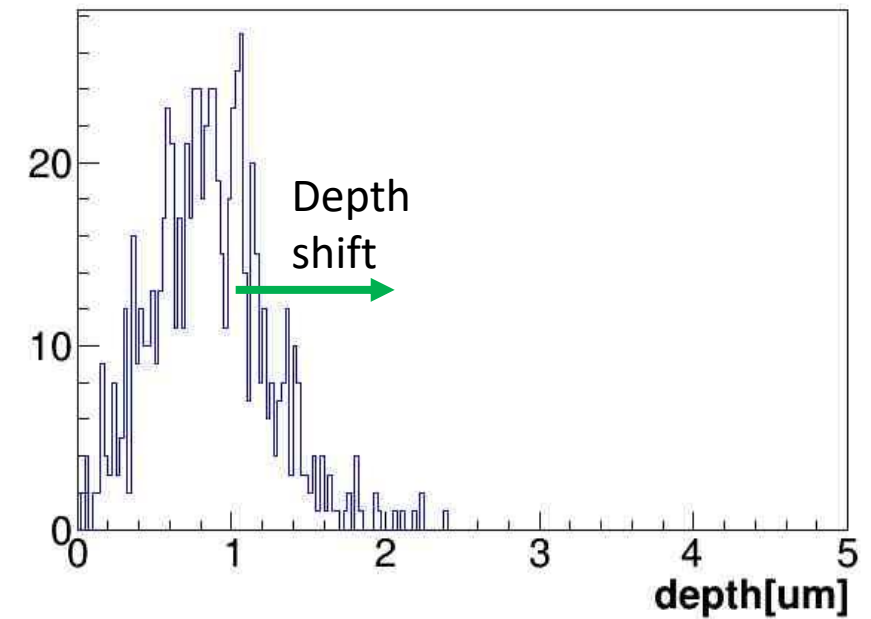
0.48% \rightarrow 0.074 %

Geant4 Simulation



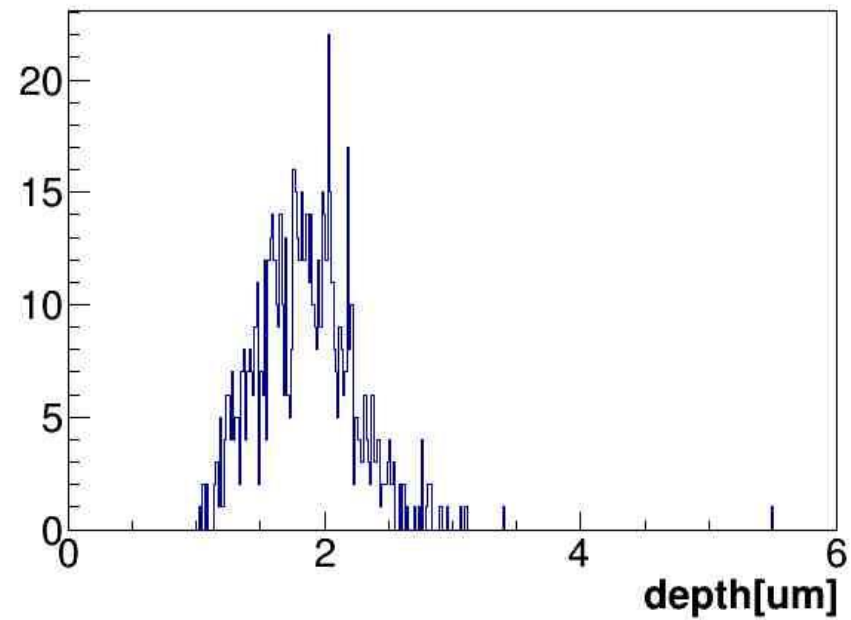
After implantation, 1 μm of gold is added to the surface of the plate

Triton Implantation [742/1000000]



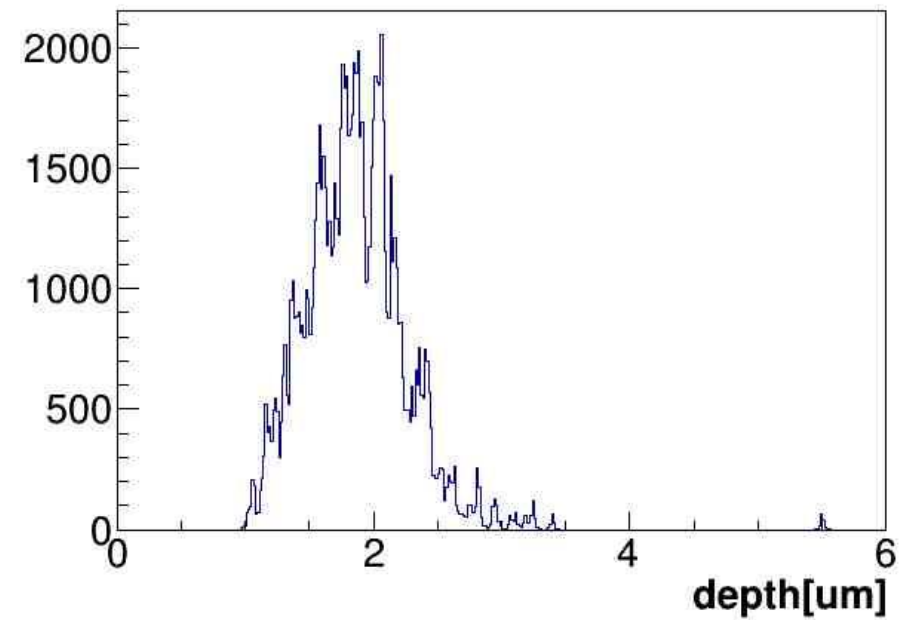
Geant4 Simulation

Electron absorption (fully absorbed)



742 iteration

Electron absorption (fully absorbed)



100000 iteration