

SmartPhantom Meeting

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October 2, 2019

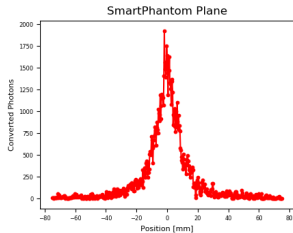
Assumptions

- 9 kBq = Simulate 9000 events to represent one second of irradiation
- Used MAUS conversion factor of energy to photons
- Plane placed about 5 mm from the source

Sr-90 Source Simulation

No Collimator

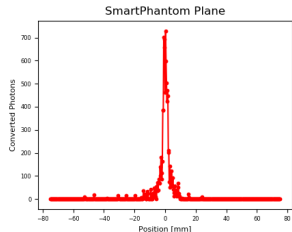
Sr-90 (9000 events per second)



Depth	0.48 [cm]
Total Energy Deposited	592.93 ± 149.52 [MeV]
# Electrons	10862
Converted Total # Photons	103604 ± 26127 [Photons]
Photons/Electrons	9.54 ± 2.41 [Photons/e-]
Comment	9 kBq with no collimator onto a SmartPhantom plane.

1 mm Diameter Aperture Collimator

Sr-90 (9000 events per second)



Depth	0.48 [cm]
Total Energy Deposited	56.11 ± 26.68 [MeV]
# Electrons	1432
Converted Total # Photons	9804 ± 4662 [Photons]
Photons/Electrons	6.85 ± 3.26 [Photons/e-]
Comment	9 kBq with 1mm aperture collimator onto a SmartPhantom plane.