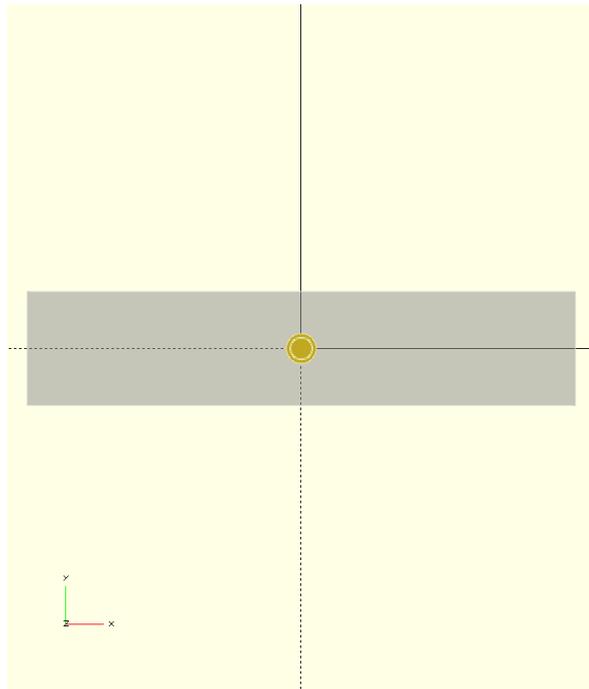
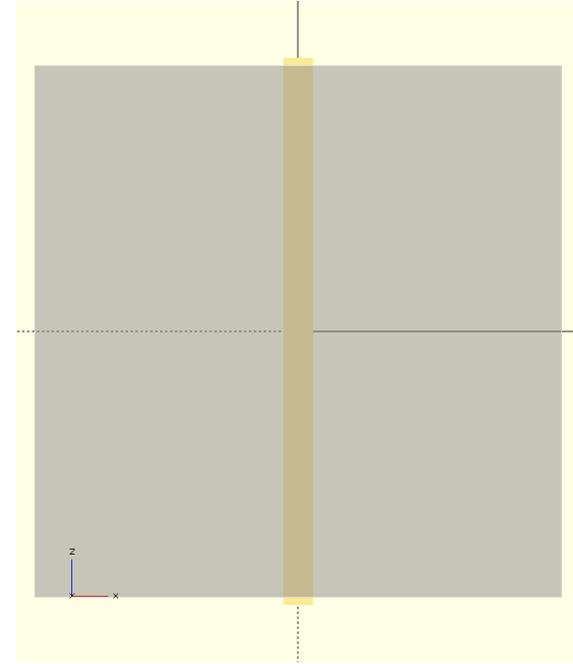
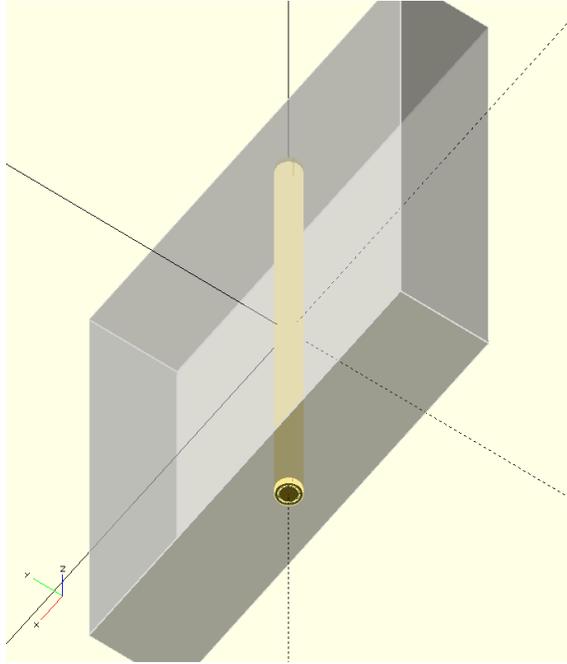
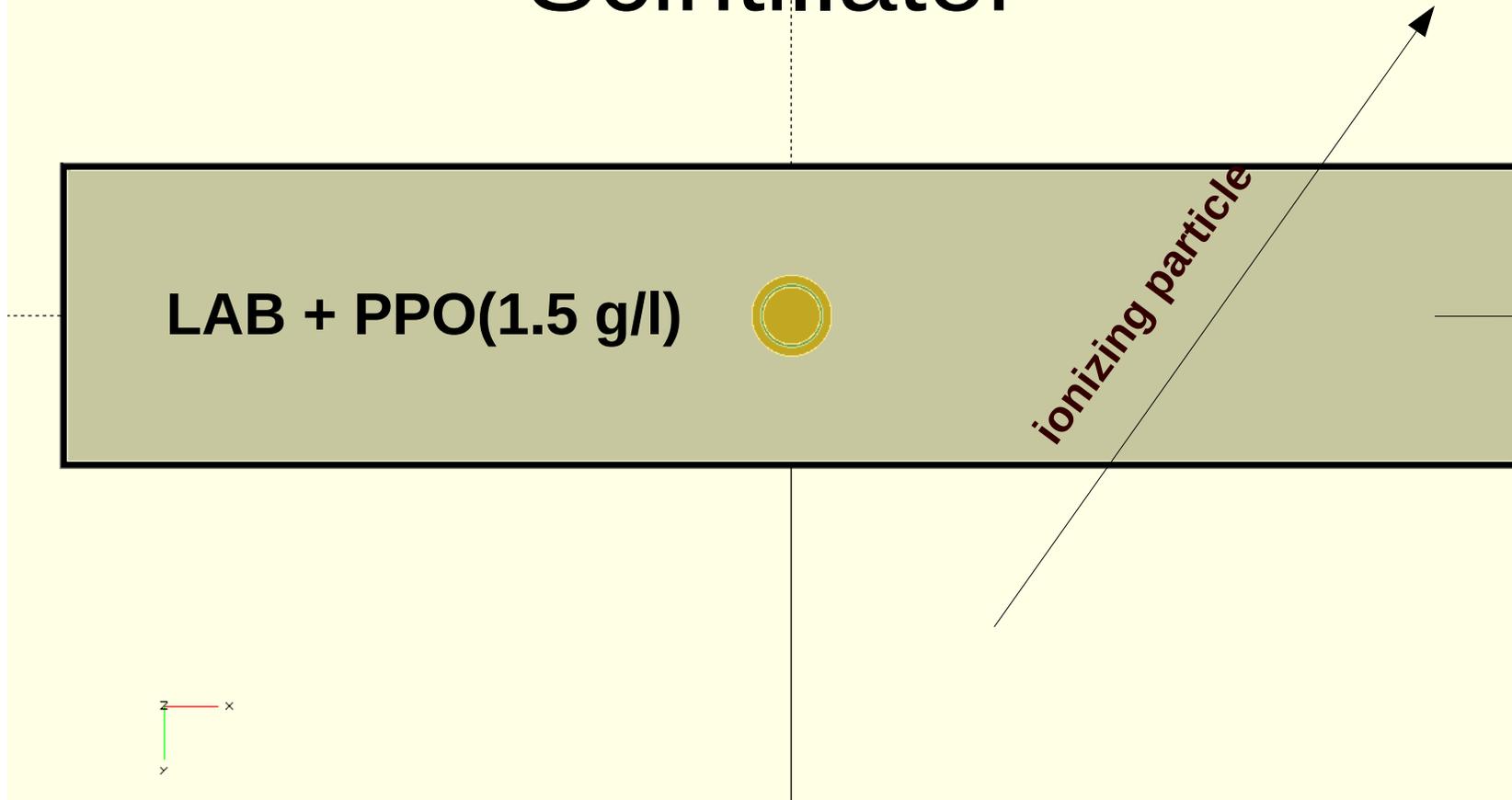


BOX



- size: 50 x 50 x 10 cm
- material: Al
- thickness of the walls:
~ 5-6 mm

Scintillator



LAB - Linear alkylbenzene

PPO – scintillator material

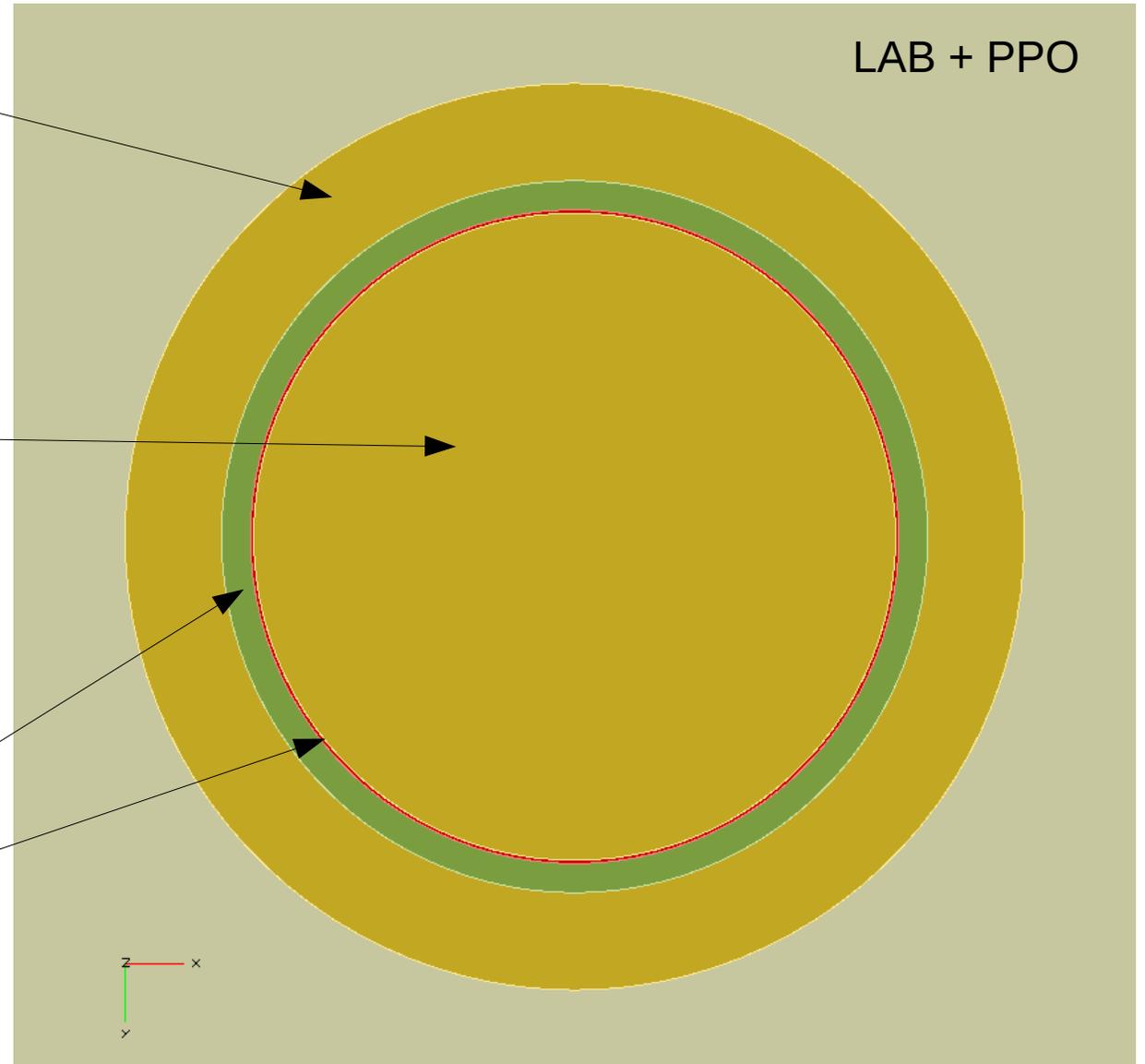
(have to check what is PPO chemical formula)

Tubes

outer tube
Material: PMMA
Size:
Rin = 11 mm
Rout = 14 mm

inner tube
Material: PMMA
Size:
Rin = 0 mm
Rout = 10 mm

air



Red coating of inner tube is a wave length shifter (WLS), material which absorbs ultraviolet light (~280 nm) emitted by PPO. And after absorption WLS emit violet light (~420 nm).

thickness of WLS(red): ~0.02 mm

example of WLS material:
Bis-MSB (p-Bis(o-methylstyryl)-benzene)