



CYGNO simulations update

CYGNO simulation working group

07/11/24

Updates from <u>simulation meeting</u> of 28/10

- Copper shielding simulation work in progress (Melba)
 - background from internal layers 0-1 re-evaluated after new ICP-MS measurements → O(2 x 10⁴) evts/year
 - o background from layers $2 \rightarrow O(10^4)$ evts/year (increasing statistics)
 - background from layers 3 → too few events, increasing statistics
- Next volumes to simulate: field cage and acrylic box
 - simplified CAD received LNF group, working to implement in Geant4
- Digitization updates (Pietro)
 - work in progress: tuning parameters for saturation simulation

<u>Simulation meeting on next Monday 11/11</u>