SAS pending issues



June 12 2022

Pending issues

- New signal runs
 - added a new "NPOD run" (10 μm and 120 fs pulse in phase-1) with ~low weights
 - pass through GEANT4 to check radiation levels and photon spectrum
- The e/g+needle calibration runs (more today)
- Backgrounds in the g+laser runs
 - maybe too large? need a collimator? check the impact in the tracker & calo (today)
- Status of fast simulation (today)
- Status of FLUKA simulation
- Beam halo background: when ready integrate with full model

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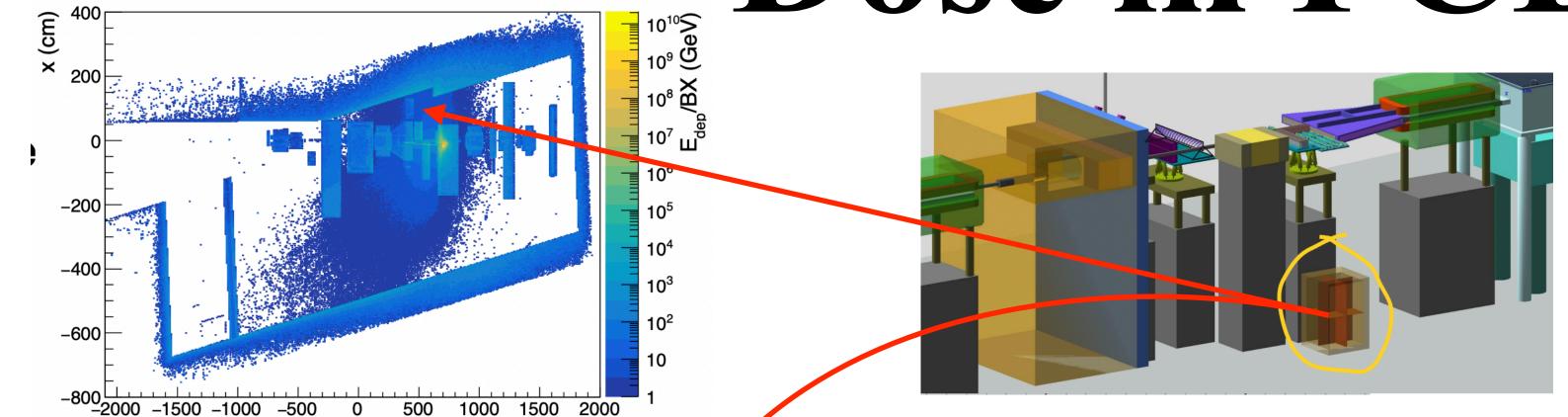
Pending issues

- Model changes based on recent work by Louis and Karsten (CAD)
 - inconsistencies in the location+implementation of the IP chamber
 - impacts everything so needs a discussion with laser experts
 - other related random points (see last meetings for a long list)

Pending issues

- Data management
 - come up with final pattern for the naming
 - make a list of the new names individually
 - move to grid storage centrally
- Code unification (lower priority)
 - feasible after subsystems converge
- Event display (lower priority)
 - filter by track id (useful for signal only)
 - will add magnetic field
- NPOD discussion
 - need a wider discussion regarding space constraints and the related options

Dose in PCBs



Neutrons flux

- Sasha (GEANT4): $\Phi_n/BX = \sim 10^4 \text{ cm}^{-2}$
- Kyle (FLUKA): $\Phi_n/BX = \sim 10^6$ cm⁻² but integrated over y-axis

