

SAS pending issues

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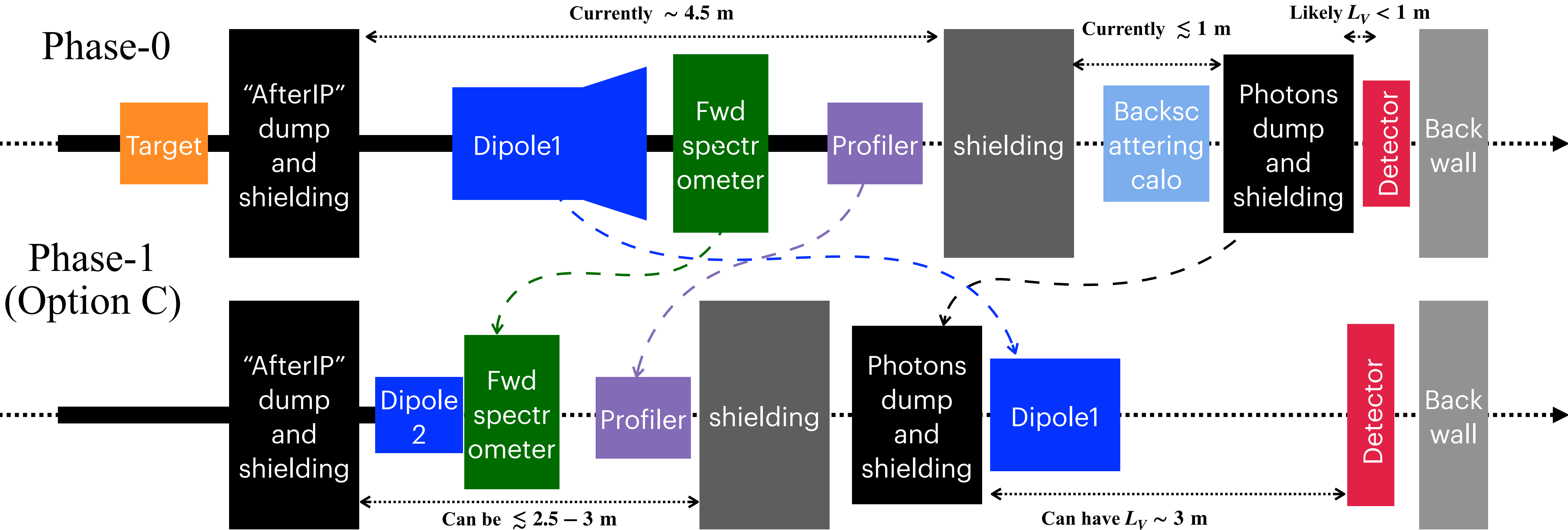
Pending issues

- New signal runs:
 - see talk by Tom from Aug 1 (LP, polarized-NBW, better Brems' input,...)
 - $g(/e?)$ +needle calibration runs
- Status of fast simulation - update today (spoiler: need another iteration)
- Status of FLUKA - needs a further discussions due to sizes of outputs (today and in a week)
- NPOD:
 - shuffling of the setup is concluded at least conceptually for now (see slide 4)
 - KIT group is now working on that extensively:
- Other important bits:
 - Beam halo background: when ready integrate with full model
 - Model updates: awaiting a decision about the IP chamber location and construction
 - Storage: see presentation by Yee from Aug 1.

FLUKA data management

- ◉ Sasha and Evan have been running into space issues
- ◉ Solution?
 - ◉ link FLUKA (Fortran) and ROOT (C++)
 - ◉ allows to skip the FLUKA binaries step

Proposal for special NPOD run in phase-1



- Reluctant to rely only on the IP screen+Cherenkov for the photon spectra measurement due to (1) shot-to-shot reproducibility and (2) multiple emissions
- Spectrometer length may be reduced by ~ 1.5 m, depending on the energy range we want to cover, e.g. up to 5 GeV (extrapolate above)
 - will need another magnet, but if we set the maximum measurable energy to e.g. 5 GeV then it can be a smaller magnet
 - we need to check what is the fraction of signal diphotons which are due to primary photons below 5 GeV
- Need to check the beam spot at the profiler in its new location (for the shuffled model) to see if its envisioned granularity is good enough for this beam size
- Radiation dose for electronics and access (activation) concerns for the profiler will be the same between the two cases
- Need to answer the question how the elements can be moved around...