Signal simulation status

- Upcoming in Ptarmigan v.0.8.1:
  - Choice of units (‘`hep`’, ‘`si`’, etc): default for TDR production will be ‘`hep`’ (mm, GeV/c).
  - Relevant unit will eventually be accessible for each individual dataset. At the moment, global metadata will be available under `config/unit/momentum → ‘GeV/c’ | ‘MeV/c’ | …` and `config/unit/length → ‘mm’ | ‘um’ | …`.
  - Offset between particle beam and laser

- Description of nominal input parameters and proposed parameter scans available at https://confluence.desy.de/display/LUXE/Signal+simulations
  - Accessible to anyone with a DESY account and the confluence resource [cf. Jenny’s email yesterday]
  - Proposed scans include: general physics case, phases 0 and 1; alignment errors for nominal focal spots; photoproduction optimisation for BSM; scoping study for ILC ☺

Signal simulation status

- Laser parameters confirmed by Matt and Gianluca

- Things to verify:
  - Number of BXs per point. At the moment 10 BXs, each with 10^6 primary macroparticles (approx. 3 – 10 core-hours)
  - Transverse size of electron beam (5 micron at the moment)
  - Also affects input for brem-laser and ICS-laser modes (new data needed from Sasha and Daniel?)