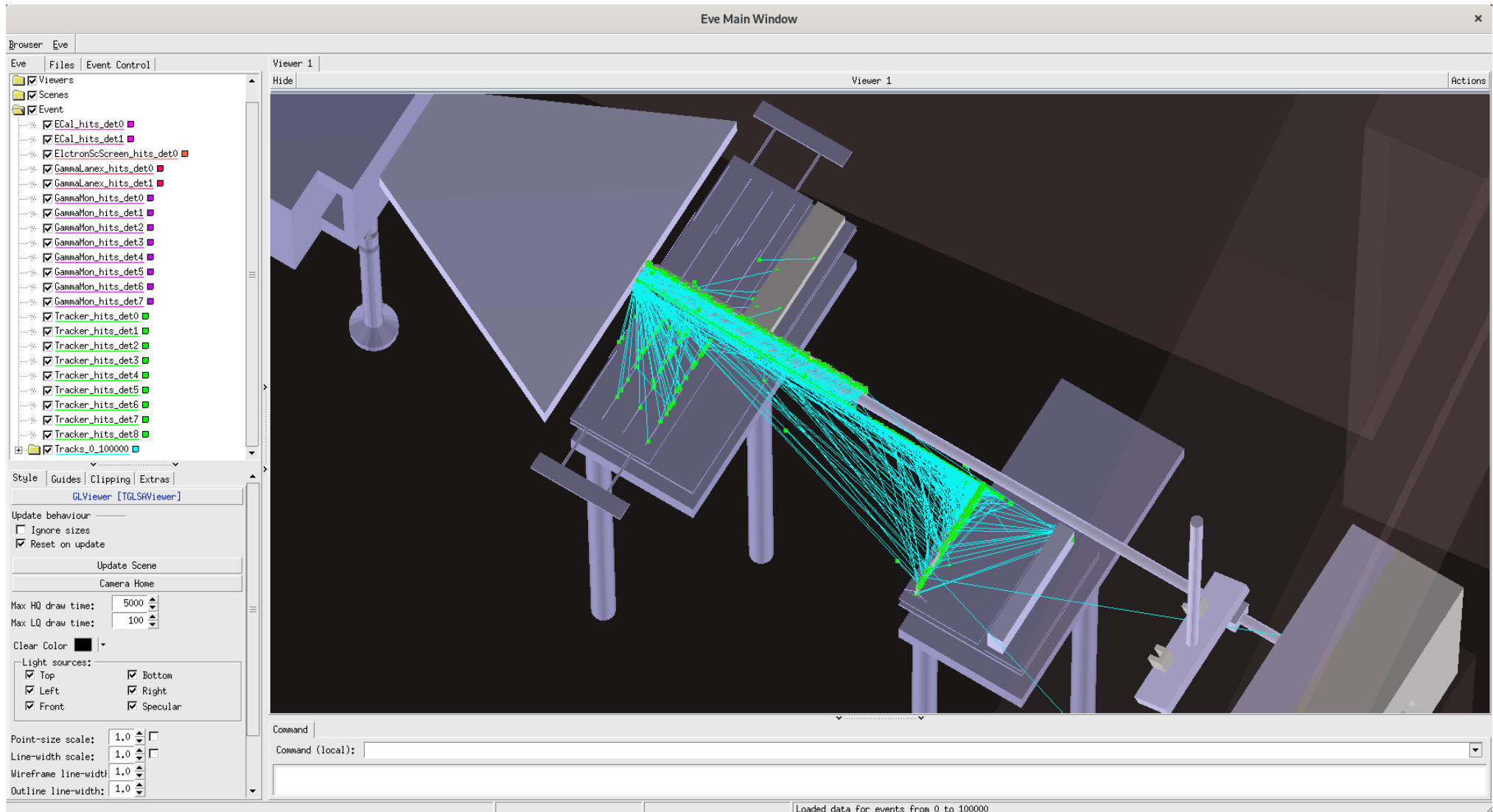# Update on LUXE GEANT4 Simulation.

Oleksandr Borysov

# Background simulation with additional shielding for ECal

Event display of simulated 100k primary electrons

# Event display

**Requirements:**

- Root installed with EVE (it seems to be a default option)

- Implemented as a single macro file (not the best approach but good for simplicity to test)

- Luxe GDML geometry file supplied as first parameter;

-  Simulation output root file (Hits and Tracks tree are used);

**Extensions:**

- Extend to display Trajectories tree and energy deposits from HIts with transformation from local to global reference frames as in DetSettings.

- Tune propagation class which displays particle trajectories.

- Add to git.

### Example:

/nfs/dust/ilc/user/oborysov/runjlx/macro/eve

```
root -l lxeve_geom_tree_gui.C'("lxgeomdump_hics_91c0c7ee_nc_dump_no_incerts.gdml",
                              "luxe_hics_signal_165gev_3000nm_jeti40_cv12_em0_alw_1mu_cut_tv4_hv1_1.root")'
```