

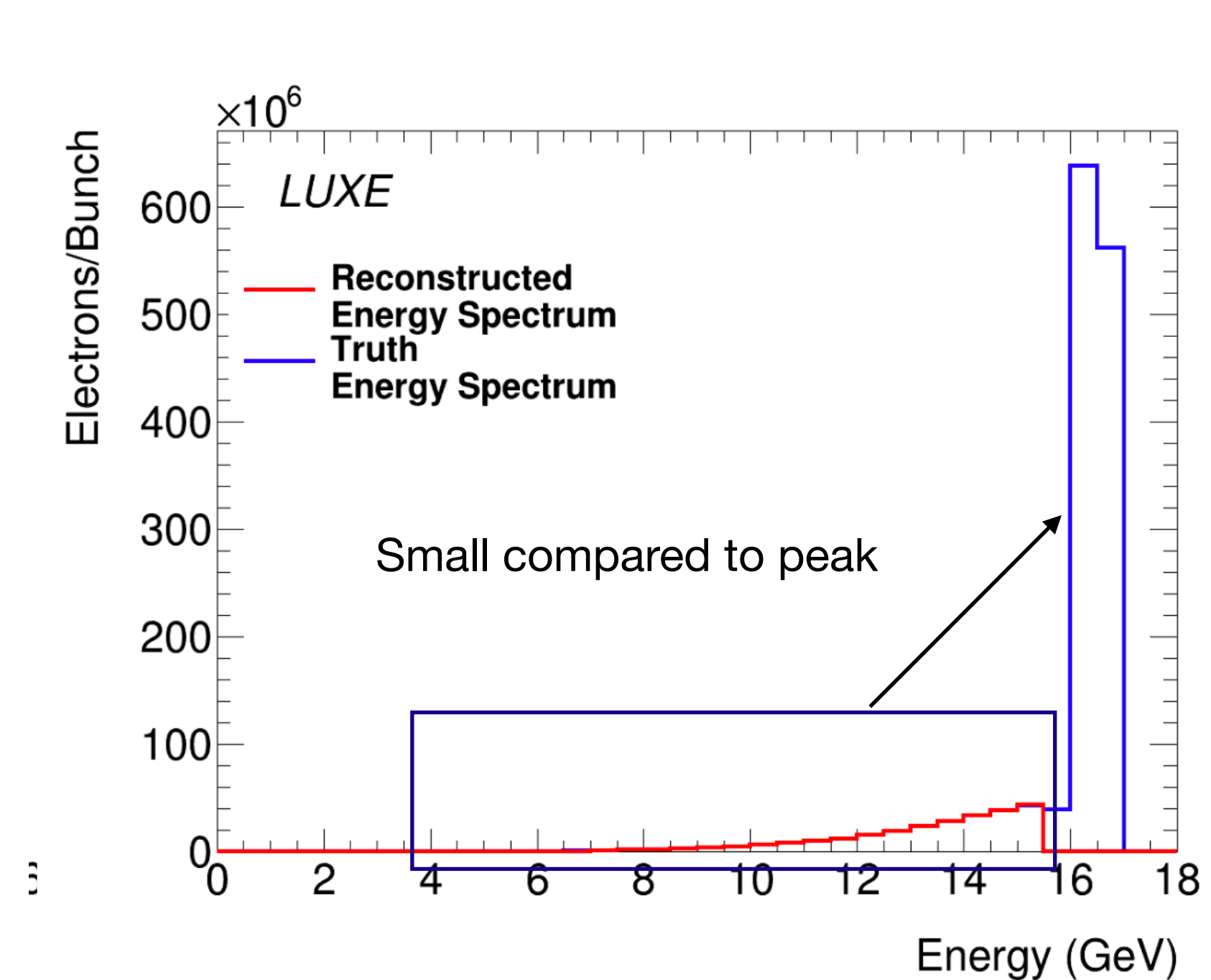
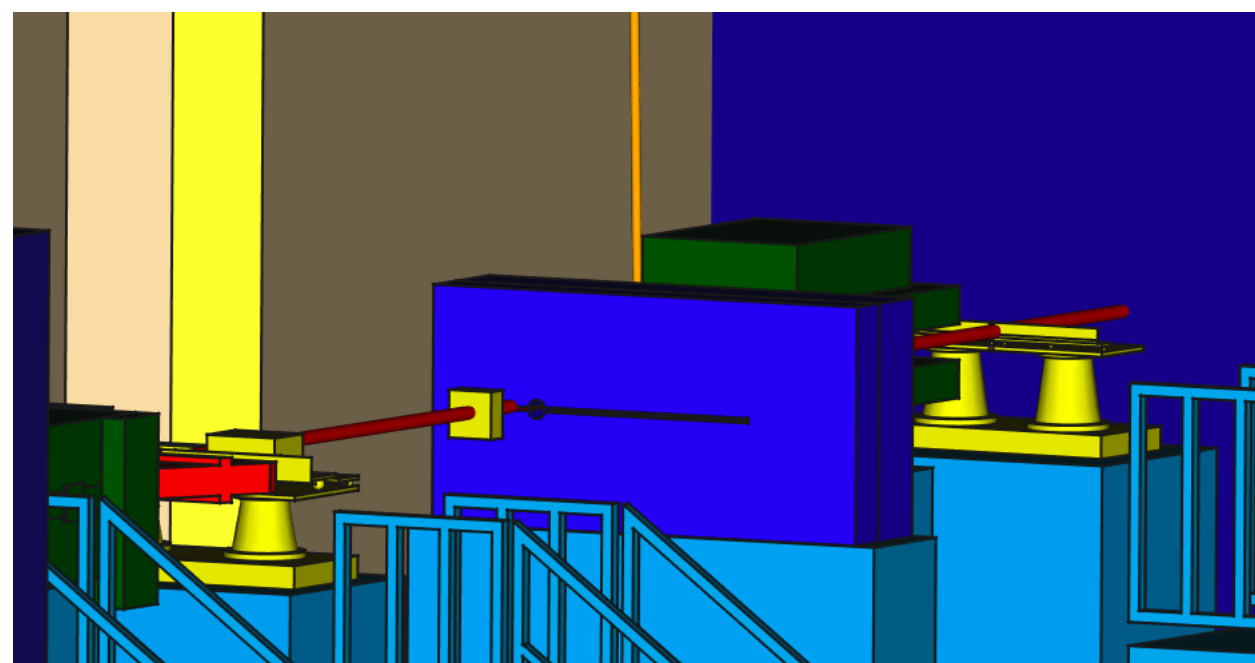
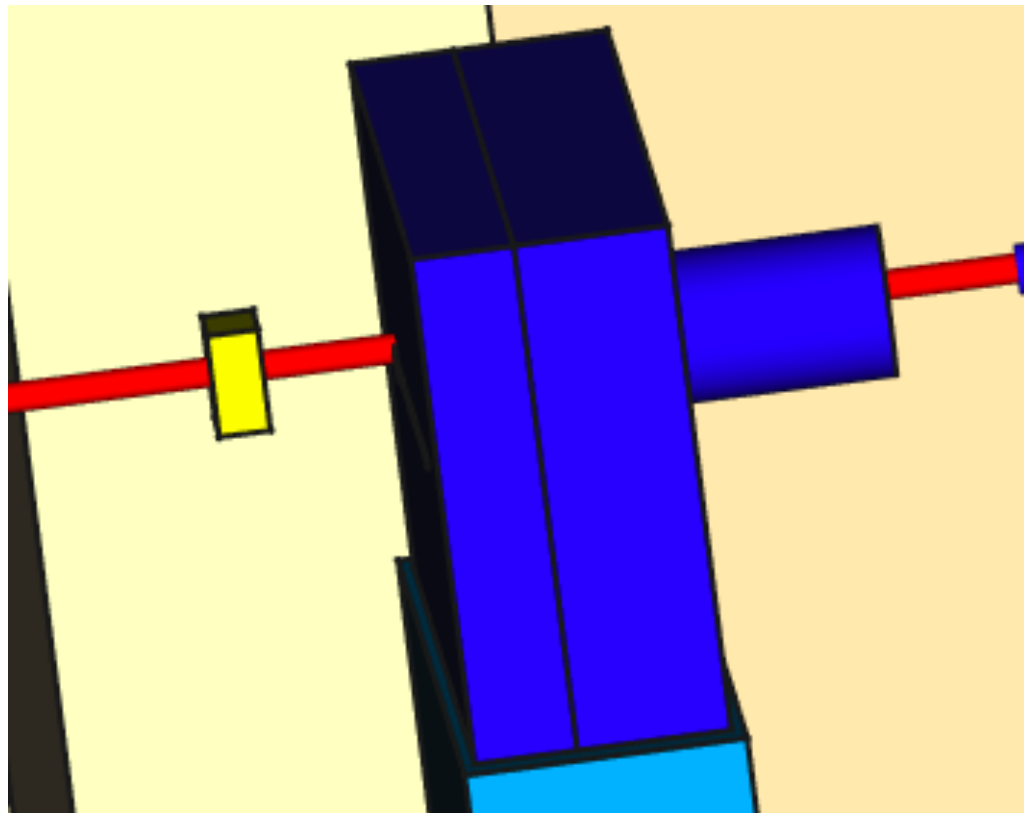
## FEEDBACK FROM RP ON BEAM IN AIR VS VACUUM

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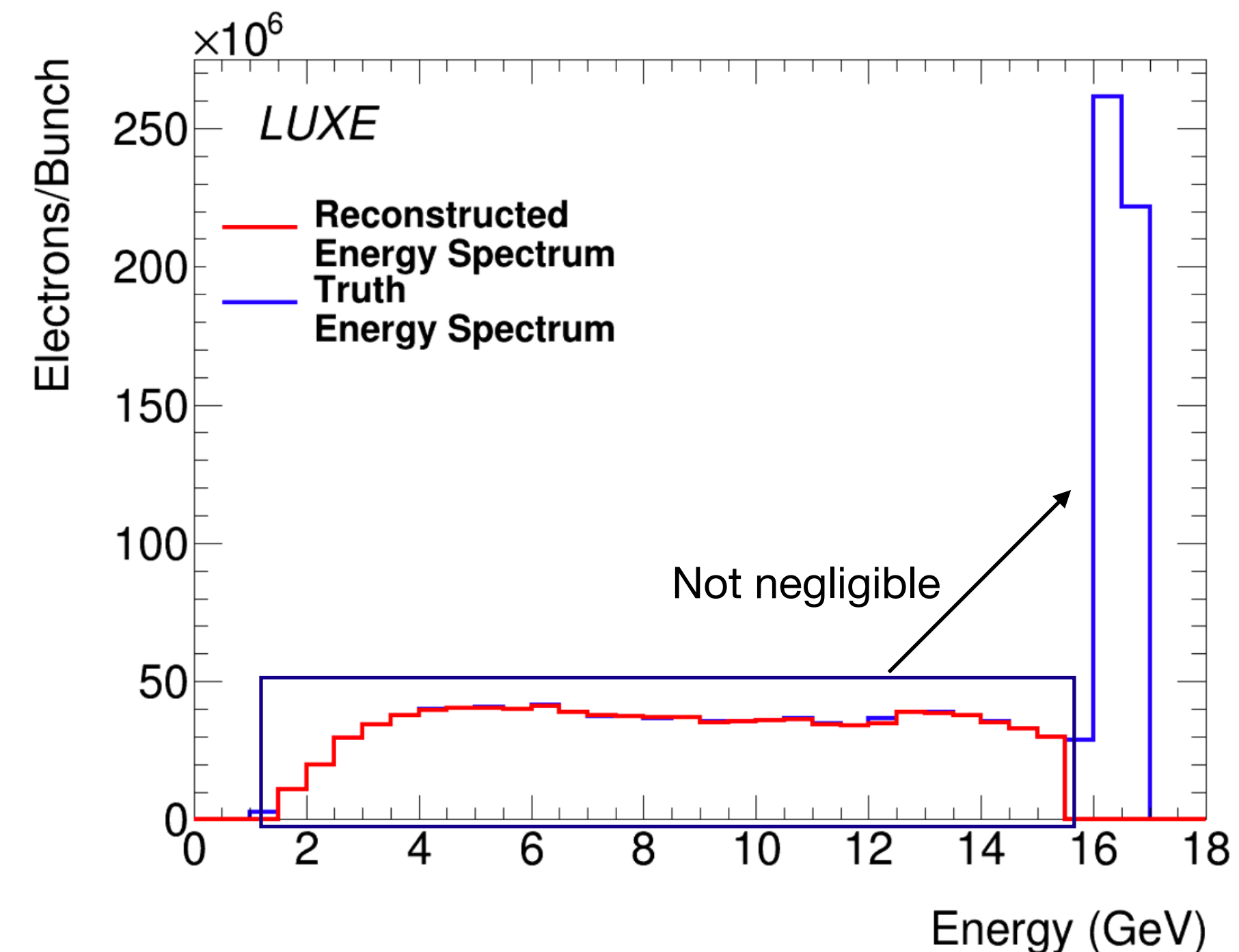
LOUIS HELARY - DESY



- I had a meeting with RP (D3) last week.
- I asked if having the XFEL beam travelling through the air for 3-4m as we currently have in the simulation was acceptable.
  - If we monitor air for air activation, then yes it would be acceptable.
  - Since we have a single bunch, the main expert was even skeptical we would measure any air activation at all.
  - However they warned me that we should be careful with the way we shield the dump for particles (such as neutron) escaping the dump.
    - Especially in phase 1 the amount of electrons that will be dumped outside the beam dump is not negligible!



Ptarmigan Full Scattering, JETI40 w0 ~ 12.6, xi = 2.0 IP Scint.



Ptarmigan Full Scattering IP Scint. Screen, w\_0 = 5 m