

Update on NEST -> LArSoft

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Code Insertion

- Went into package LArG4 and replaced all references to “G4Scintillation” with “G4S1Light” in OpticalPhysics header and cxx
- May need to also add “G4S2Light” for full thermal electron functionality
- Question: is there an easy way to do this that allows switching in between models?

Before the Workshop

- Finish putting NEST into LArSoft (I will try)
- Question: how easy to test? Can I compile and run the FULL LArSoft (all packages)? How does it work with testing some nominal macro?
- More focus on reproduction of ICARUS and other data with LArSoft and NEST
- Since we focused on yield at last meeting, why not look at pulse shape vs. dE/dx , purity, etc.
- Answer question of whether we can run on the surface with a FULL Monte Carlo