

PNS Working Group Meeting

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Pulsed Neutron Source Working Group Meeting July 21, 2021

Status

Building the PNS Test Setup at SD Mines (Walker's talk)

- LANL DD generator is being shipped from CERN to SD Mines. We expect to receive it before September
- Finalize the shielding designs for PD2 test and laboratory test
- Start building the laboratory test setup in August.

Closing-up the PD1 DD generator data analysis (Yash's talk)

Increase the statistics for both data and simulation

Preparing for PD2 (Ongoing)

- Run Geant4 simulation for different neutron source locations at PD2
- Plan to run LArsoft simulation to study the realistic detector response
- Modify the DD generator: external triggering, separate tube from electronics box
- Need to coordinate with CERN and DUNE about engineering and safety requirements

Completing ARTIE paper

- Have addressed the final-round comments from collaborators
- Paper to be submitted in a week

7/21/2021