Introduction to the Workshop

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2x2 Analysis Workshop
University of Bern, January 2023

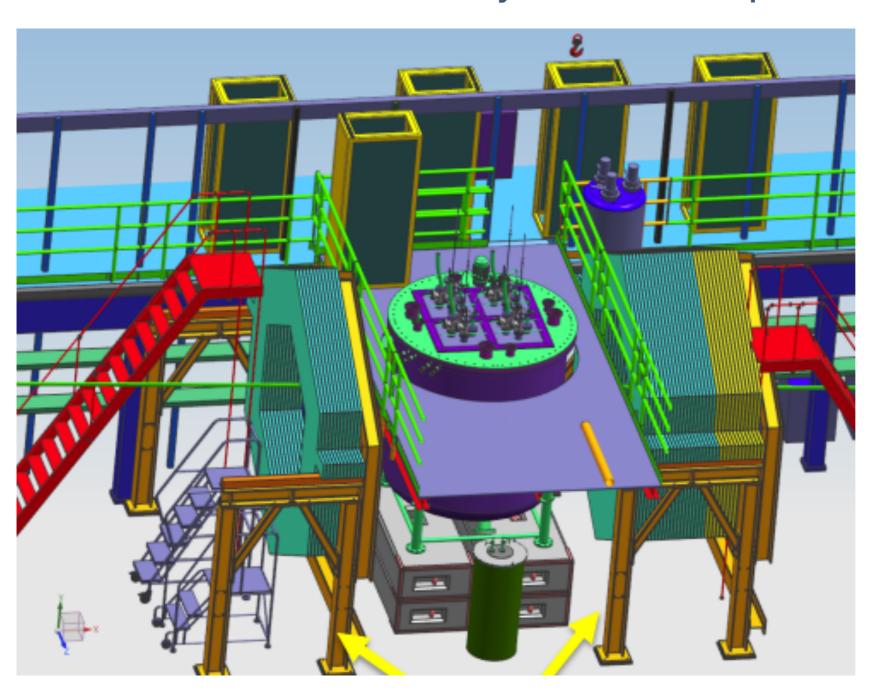






Welcome!

Welcome to the 2x2 analysis workshop:



The 2x2:

- Four ND-LAr prototype modules in a single cryostat
- A forwards & backwards tracker made of repurposed MINERvA modules
- Exposed to the NuMI beam at Fermilab







Goals

- The 2x2 offers unique opportunities, both from the detector technology and physics points of view:
 - Innovative LAr technology
 - High-intensity neutrino data
 - (Hopefully) long running span
- But also unique challenges:
 - Two detector systems with very different software & DAQ architecture
 - Big project in an even bigger experiment
 - Pressing timeline!
- Main goals of the workshop:
 - Review the status of the hardware and the timeline
 - Have a preliminary exploration of the physics potential of the 2x2
 - But most importantly: accelerate progress towards getting our analysis infrastructure ready!

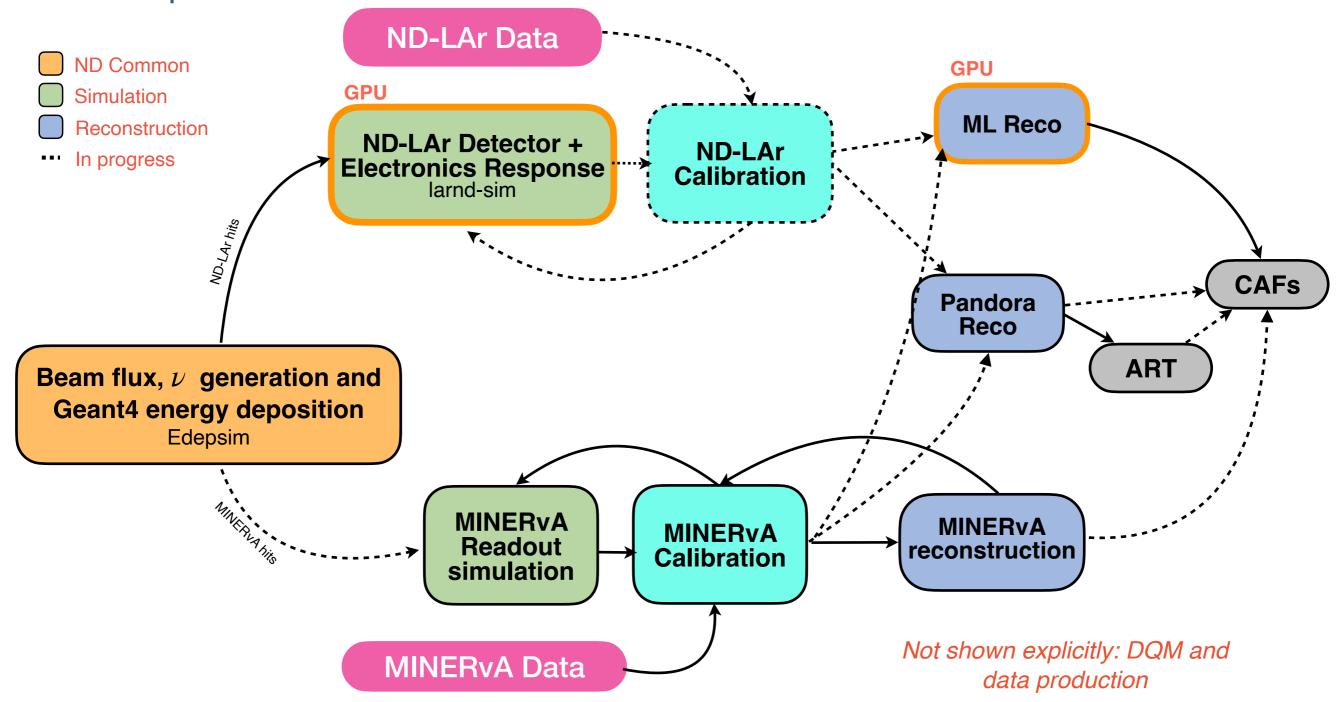






The 2x2 Software Chain: Vision and Status

We are constructing a complex ecosystem with many interfaces and interdependencies



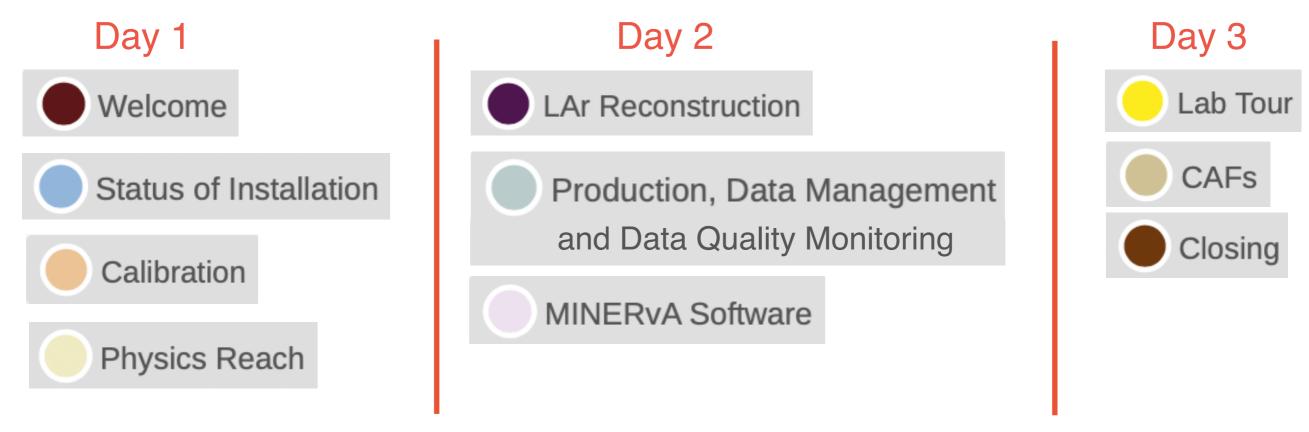






Workshop Agenda

Rough plan for the next three days:



- Detailed agenda available in https://indico.fnal.gov/event/57076/
- Extra time has been budgeted for each session
 - Want to leave plenty of time for discussion and possibly even working time
- DAQ to be covered in special ND-LAr + DAQ session on Wed Jan 25 at CERN







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