



U.S. DEPARTMENT OF  
**ENERGY**

Office of  
Science

## Mu2e News

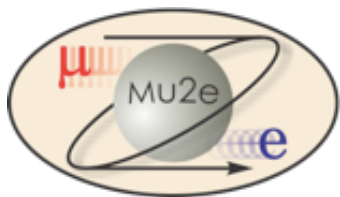
---

**Stefano Miscetti**

LNF INFN, Italy

**18 Dec 2023**

**Mu2e Italy Meeting**



# TS Move: TSU in the PIT – TSD in January

- the project for solenoids is becoming reality: TSU Dec-7 2023



# PS and DS

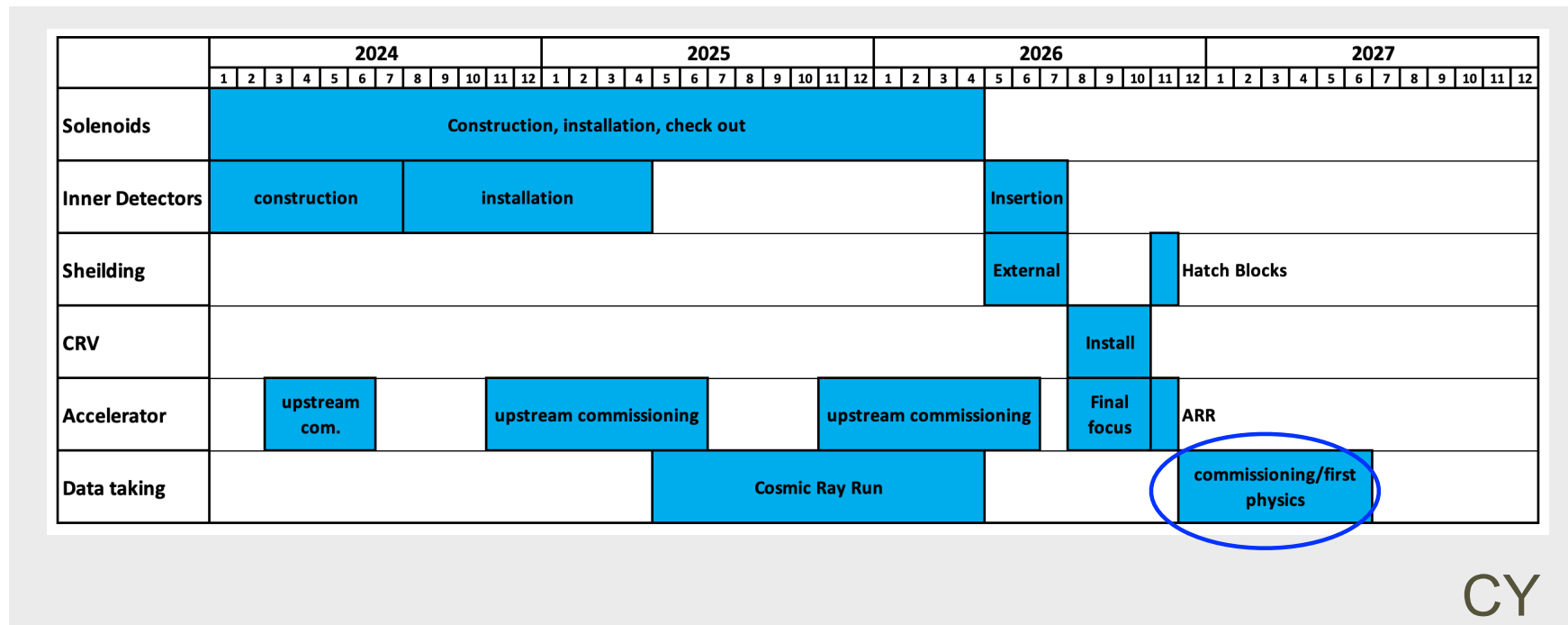
---

- TSD expected to move in January. Again preparation of movement, wait for best weather conditions. Preparation of pit adjustments. **In the meanwhile connection of criogenics for TSU. Here it is a A+.**
  - Discussion about powering and cooling in advance of schedule is being considered but not yet planned due to opportunities considerations
- PS almost completed. Final touch in progress. Transportation under planning. Big deal here is the installation in the pit. Plan is “entering from the PS hatch”. Preparation of external crane in progress → **It is a B**  
SPRING 2024.
- DS coils have been completed. So no problems for the Superconducting cable.
  - Schedule here is a problem.
  - GA schedule still aggressive but Solenoid team does not believe it.  
Project Schedule being corrected assuming a delay of  $O(1 Q)$   
**This looks like a D-F score**
    - See effect on next page

# New schedule for PAC – Jan 8-12

Beginning of January, two presentations at PAC

- Program Coordination – B. Casey: Mu2e status
- Co-Spokes - B. Bernstein – impact of beam delivery on Mu2e



- We overlap now with Long Shutdown
- Also PIP-2 looks to be on the same path
- The directorate will discuss this with us and all experiments

**Mu2e**



## P5 is on our side

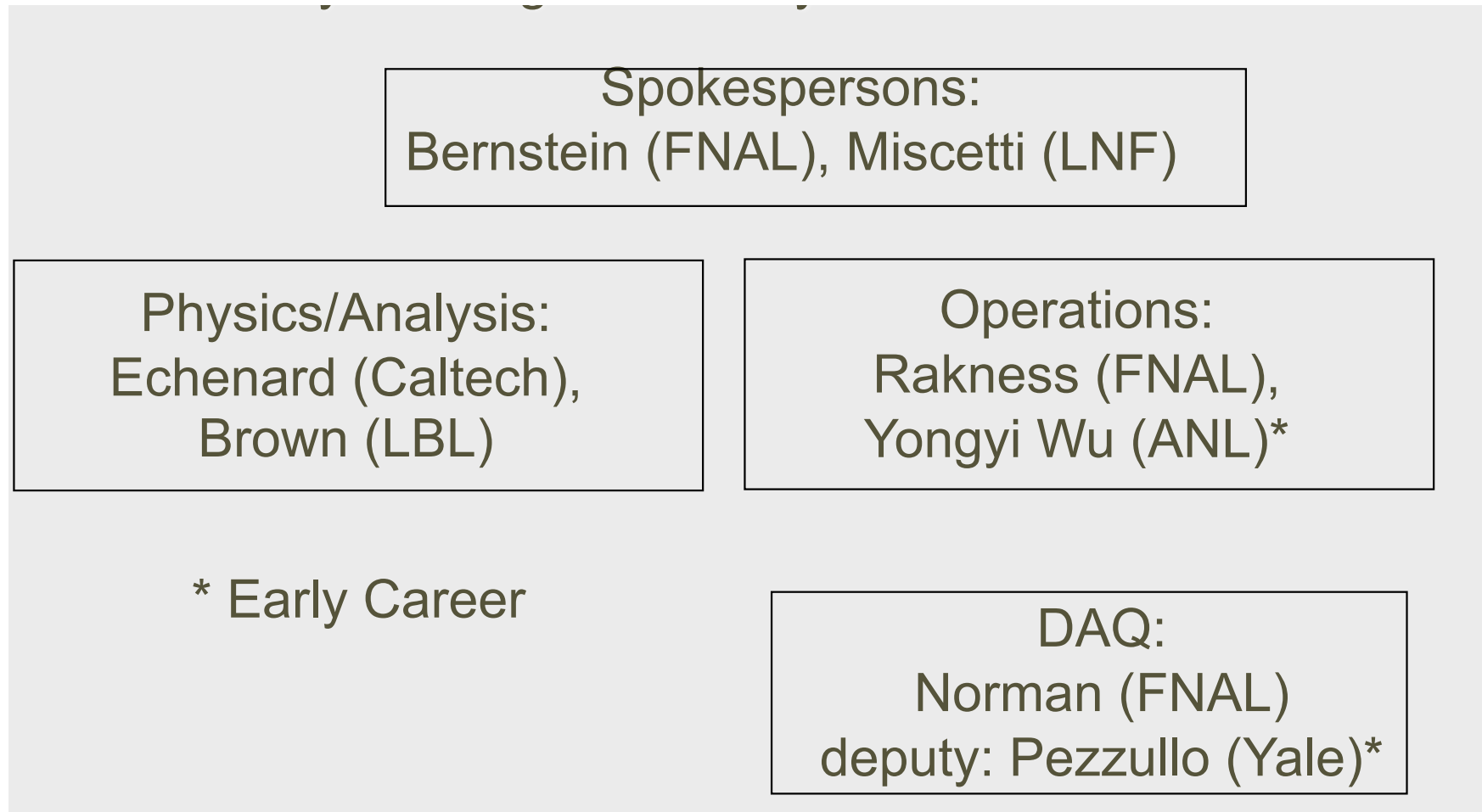
---

- Mu2e wasn't canceled...and they showed us running until about 2035
- R&D for Mu2e II.
  - they said don't do the experiment until Mu2e has run, which is not illogical
- R&D for AMF
  - very long-term
- Favorable toward Muon Collider: R&D and logical to put it at Fermilab.

- Lab Schedule does not take into account six month loss from Accident at PIP-2 construction site
- We expect schedule will change → pressing for 10% data in Run-1
- **Best argument is success: Spring 2025 CR run in the pit**  
**This is going to be the Collaboration Effort for 2024-2025**

## ORG-chart news

---



- Weekly meeting of EEC started
- Working now on organizing and populating lower side of the ORG-chart

# Starting from Operation ...

---

- We expect Detector Ops Managers to cover 3 primary aspects:
  - **Online software**
    - This topic effectively includes run control, DCS, DQM, performance metrics, ...
    - We may end up organizing specific groups across subsystems to address these
  - **Hardware**
    - This is presently handled within Project, but in the next ~year will transition to Ops
    - So probably Ops Managers should be 100% at Fermilab by this time
  - **Planning / reviews**
    - This is the essential function that the Ops Planning Team has been doing
    - This makes it so the person responsible to deliver the work has made the plan
- We want to have an Ops Manager for each subsystem
  - Detectors seem clear-cut (DAQ, Trk, Calo, CRV, STM, Extinction Monitor)
  - Solenoids, Accelerator, Data Processing & Computing might be a little different
- If you are interested to be Subsystem Ops Manager, please discuss with your subsystem Project L2

# OPS coordination focus: Spring 2024

---

- Mu2e Ops Coordination focus in 2024 is on data collection
  - Outfit test stand in Edwards Center (IERC)
  - Organize a series of “Global Runs”
    - Global run = run with more than one subsystem
    - Local run = run with a single subsystem (VST is simplest version of local run)
- Proposed schedule for Global Runs
  - We would think each of the following would last ~one ~week (T-Th?)
  - **Mar 2024 : Global Run #1**
  - Jun 2024 : Global Run #2
  - Sep 2024 : Global Run #3
  - Dec 2024 : Global Run #4
  - Mar 2025 : Project KPP Global Run
  - After the Project KPP, Global runs will continue in some form or other leading up to beam
  - Note: as far as this program is concerned, Project KPP is a by-product

Personal note: for Calorimeter and tracker expect also a so coldo  
“Multi-Run” → Multiple boards (1 station or ½ disk) Apr-Jun 2024