

# PIP-II

## Project Director Report

December 2021



Late-afternoon sunlight illuminates Wilson Hall and the PIP-II Cryoplant Building.

### Project Highlights

- PIP-II hosts DOE Secretary Granholm
- First ever PIP-II International Sustainability Workshop held December 16–17
- Second 40kW Solid State Amplifier arrived from DAE/RRCAT
- PIP2IT Reconfiguration progress
- 10th PIP-II Project Executive Board (P2PEB) held in December

### Upcoming Events

|               |   |
|---------------|---|
| 20 January    | WUST – Fermilab signing PPDs                        |
| 25–28 January | Independent Cost Estimate Review virtual site visit |
| 31 January    | ASPIRE Fellowship application deadline              |
| 7 February    | International Neutrino Council (INC)                |
| 1–3 March     | DOE CD-3 IPR  |
| 15 March      | P2PEB #11   |

## PIP-II hosts DOE Secretary Granholm

On December 10, 2021, U.S. Secretary of Energy Jennifer Granholm visited Fermilab together with Gov. J. B. Pritzker, Sen. Dick Durbin and Reps. Lauren Underwood, Bill Foster, Sean Casten, Marie Newman and Bobby Rush. The Secretary saw the PIP-II cryoplant building currently under construction, visited the Cryomodule Test Facility and assembly areas, and met some of our world-class PIP-II team.



## First ever PIP-II International Sustainability Workshop held December 16–17

PIP-II hosted an International Sustainability Workshop December 16–17, 2021, to bring together PIP-II international partners and stakeholders, international sustainability experts, and representatives from future research infrastructure projects from around the world to discuss sustainability goals, understand lessons learned and review the PIP-II approach.

The workshop ended with an open discussion to generate ideas for increasing PIP-II's sustainability; the next step is to determine the most reasonable, achievable, measurable, and time-efficient strategies.





## Second 40kW Solid State Amplifier (SSA) arrived from DAE/India



40kW RF amplifier prototype is being assembled in CMTF.

The second 40kW Solid State Amplifier (SSA) prototype from RRCAT of DAE/India was delivered to Fermilab in December.

Once assembled and tested, this amplifier will be used to power the High Beta 650 MHz prototype cryomodule testing at CMTF.

Thank you to our DAE partners for their collaboration!

## PIP2IT Reconfiguration progress

The reconfiguration of the PIP2IT facility to incorporate a test stand for 650MHz cryomodules has continued. Cryogenic distribution modifications are nearly complete, and the personnel platform to be used for U-tube installation is in place. Cryopant cooldown is planned for January. RF distribution for individual cavity testing has been installed inside the test cave. Cable pulls of new cables and dressing of repurposed cables is underway.



Modified cryogenic distribution.

## 10th PIP-II Project Executive Board (P2PEB) meeting held in December

The 10th PIP-II Project Executive Board (P2PEB) was held December 15, 2021. Discussions included updates from international partners, updates from the project with impact on international partners, and preparation for DOE CD-3 Review.

