

EPICS for PIP-II

Pierrick Hanlet

25 April 2023

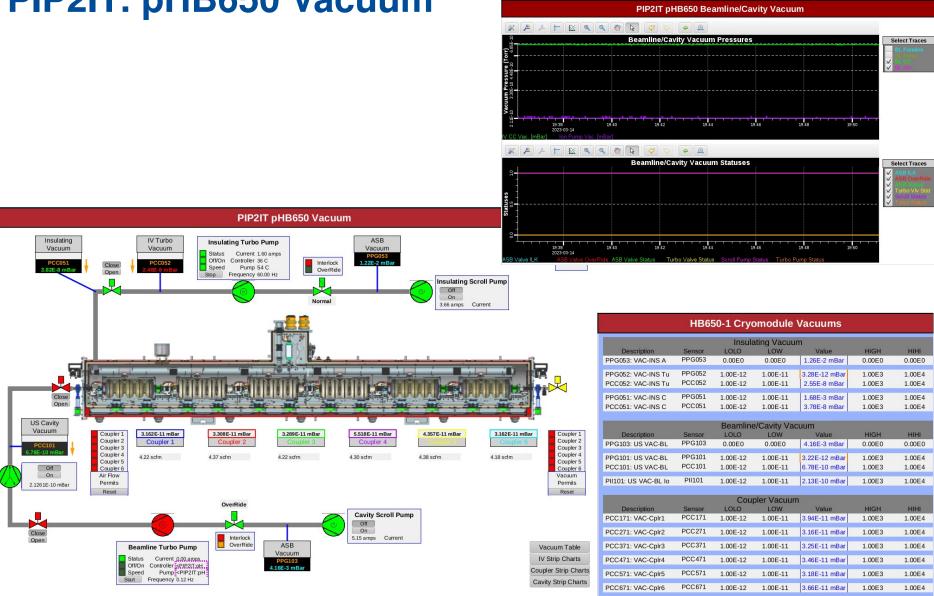
A Partnership of:
US/DOE
India/DAE
Italy/INFN
UK/UKRI-STFC
France/CEA, CNRS/IN2P3
Poland/WUST

EPICS at PIP2IT

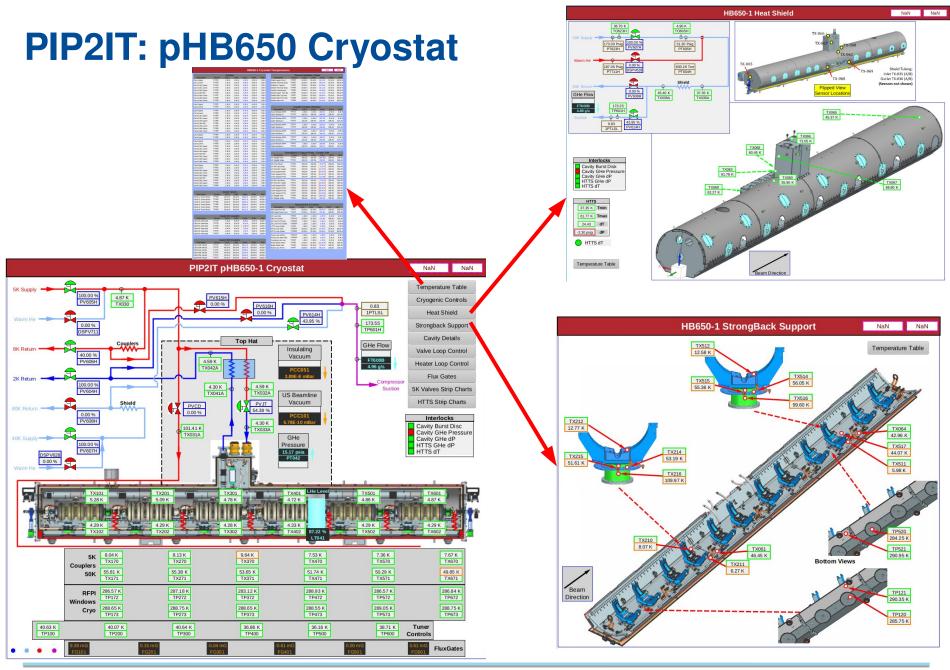
- PIP-II will use EPICS as its control system framework
- EPICS framework will be made available throughout AD controls network
- Implement modern computing practices Continuous Integration/Continuous Deployment (CI/CD)
- PIP2IT is the PIP-II Integration Teststand
- Opportunity to develop and vet controls for each cryomodule
- Opportunity to evaluate applications and requirements:
 - Archiver Appliance
 - Alarms
 - Save & Restore
 - Channel Finder
 - E-log integration
- Presently have IOCs and HMIs for:
 - Vacuum
 - Cryogenics
 - LLRF existing system
 - HPRF development in progress with Cosylab
 - RFPI



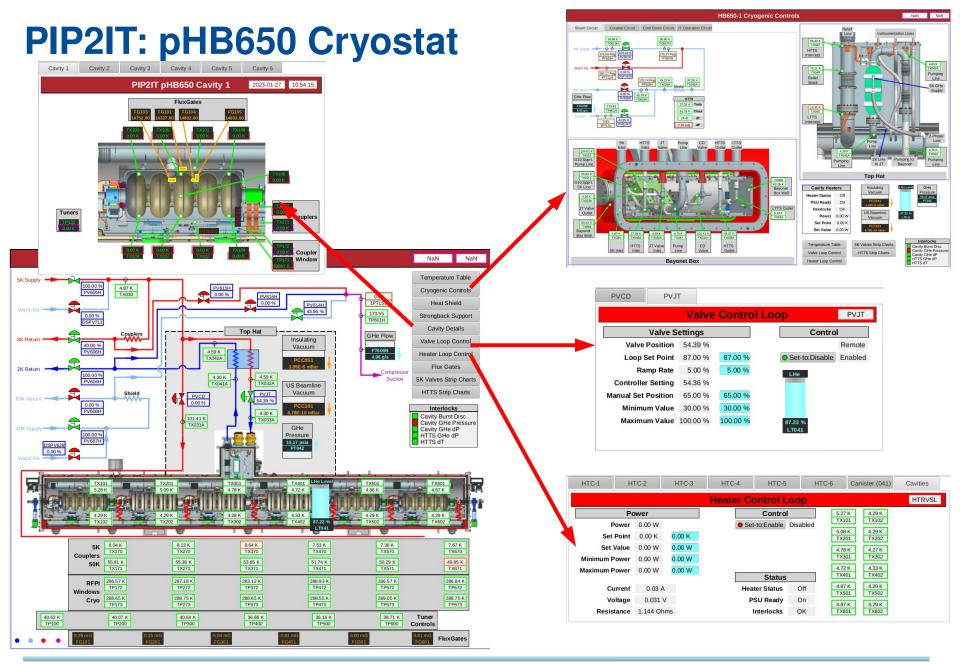
PIP2IT: pHB650 Vacuum





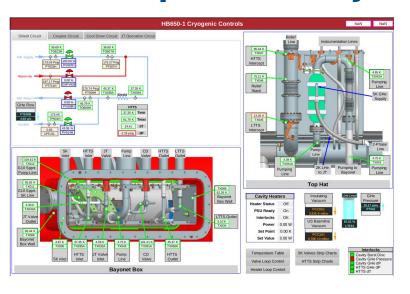


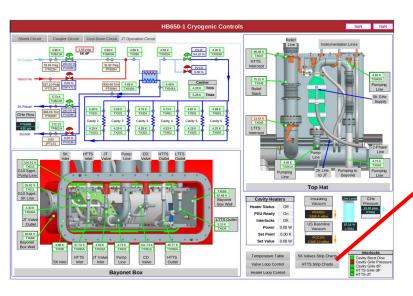


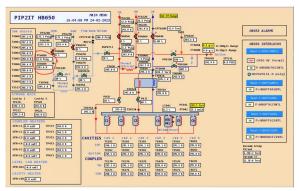


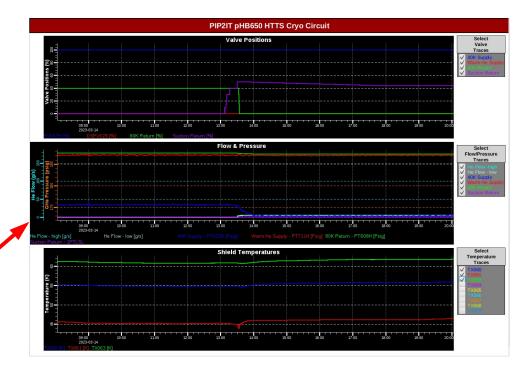


PIP2IT: pHB650 Cryo Control





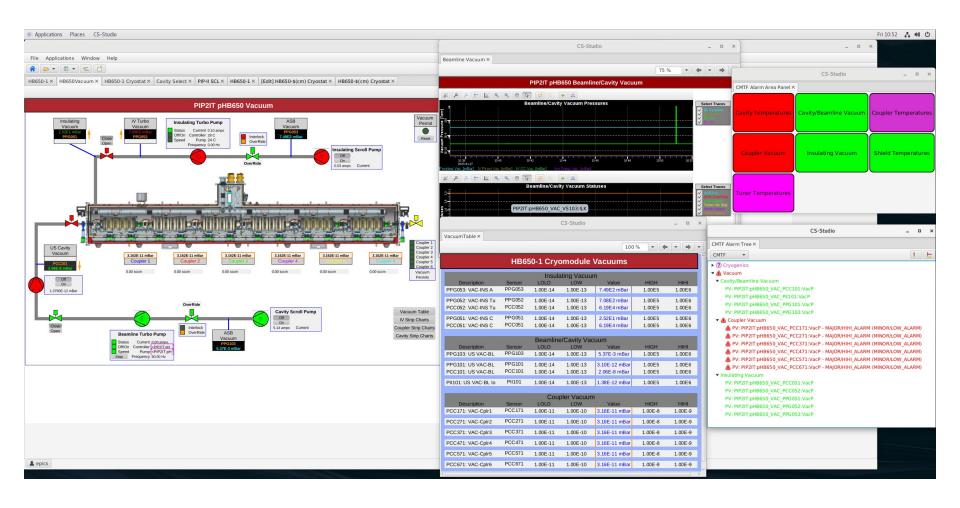




P. Hanlet | Controls Department | EPICS for PIP-II

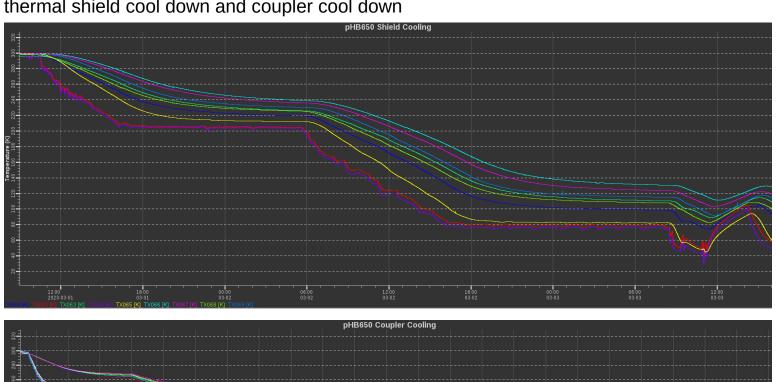


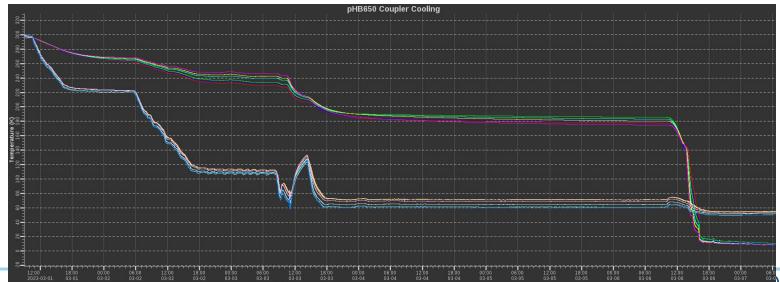
PIP2IT: pHB650 Working Desktop





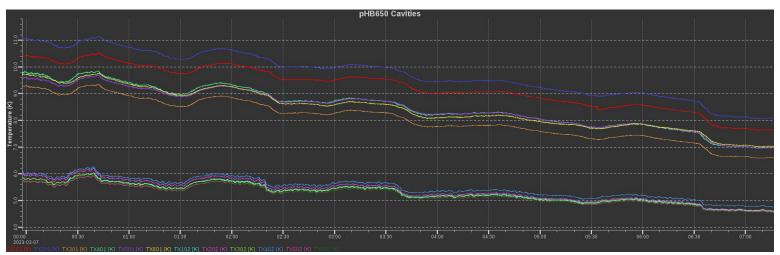
pHB650 thermal shield cool down and coupler cool down





pHB650 cavity cool down to 2K







Strip tool

