



MERIT Installation Issues

CERN Meeting

June 20, 2006

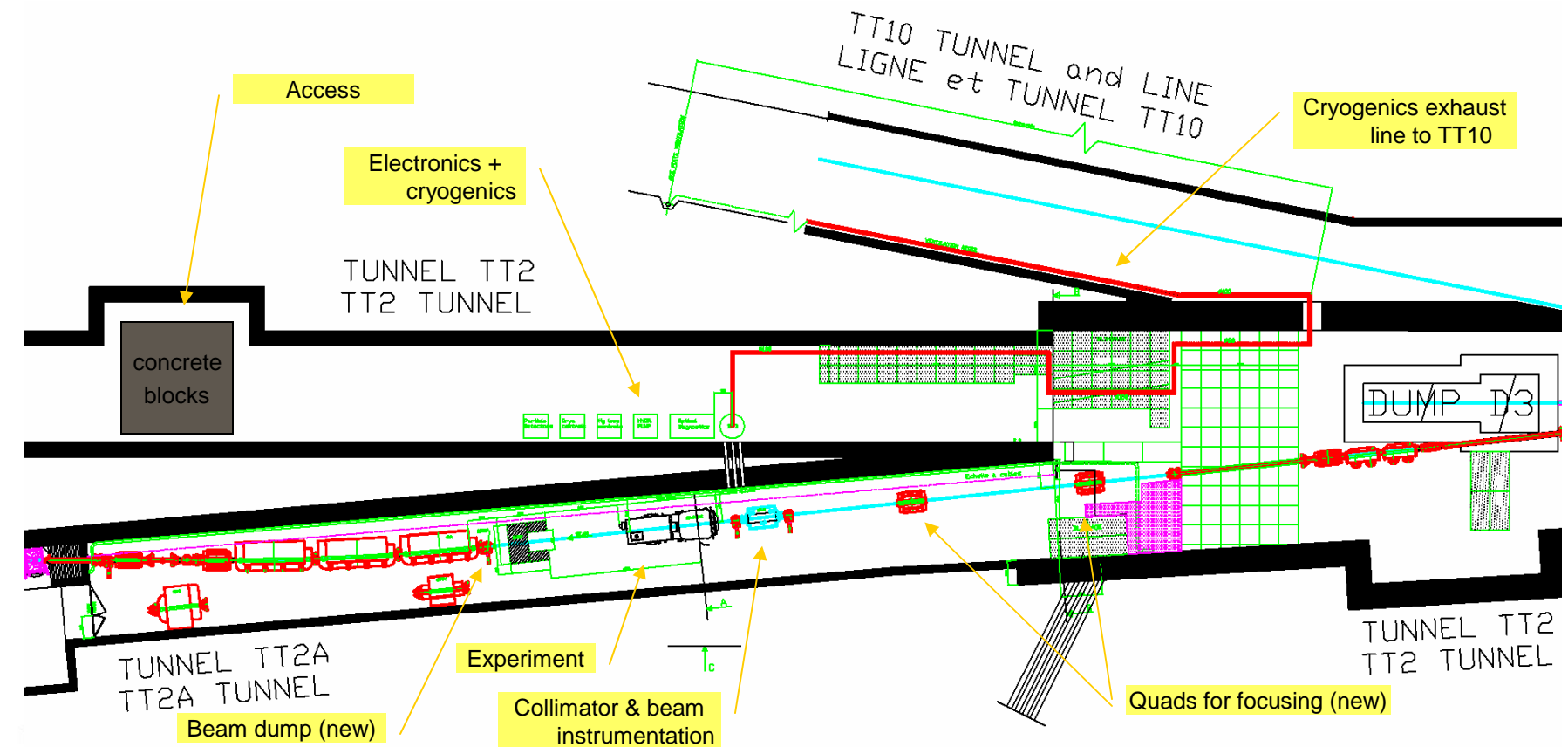


Harold G. Kirk
Brookhaven National Laboratory

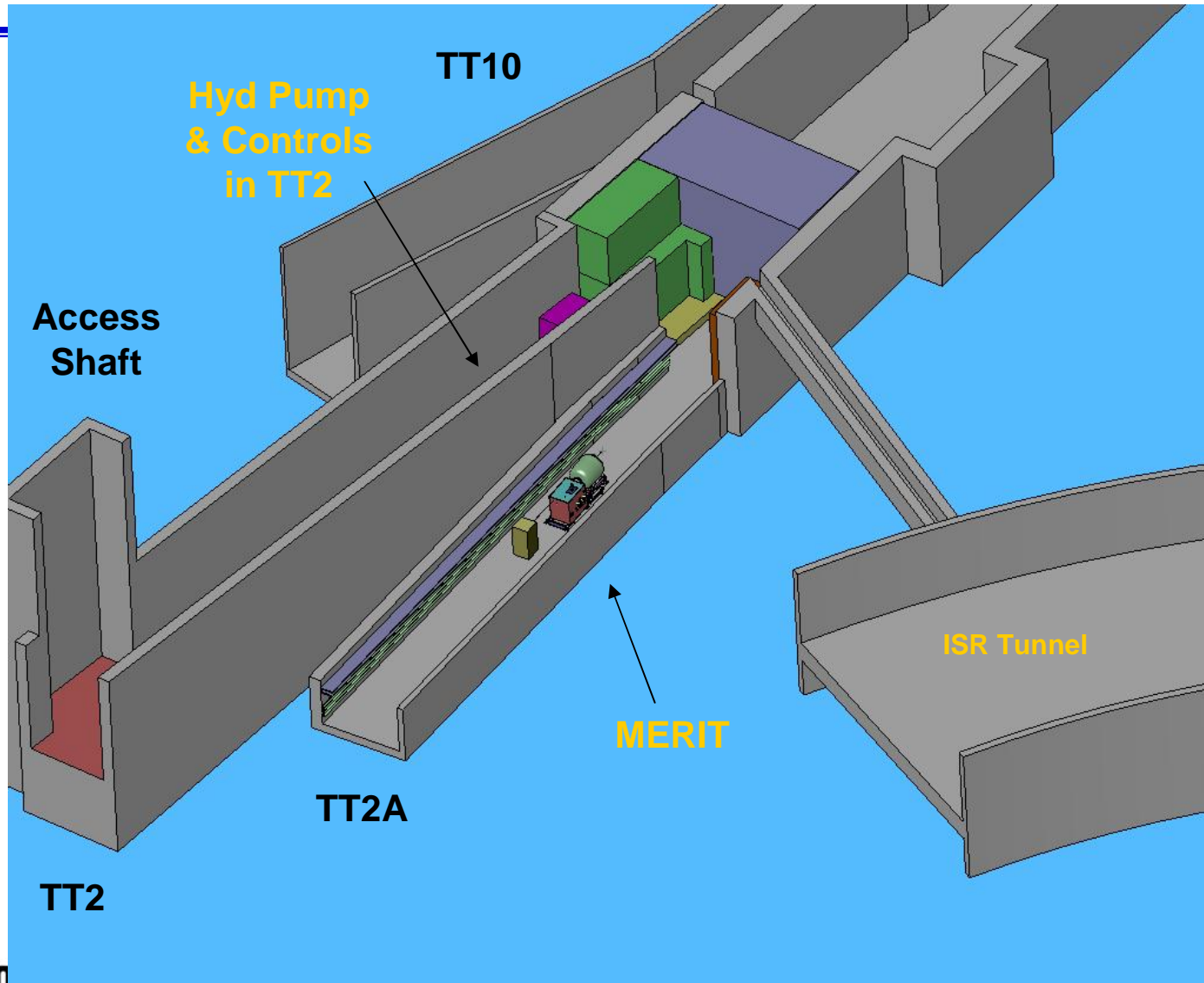
The MERIT Experiment (3/3)

To be installed in the **TT2A tunnel** upstream of the nTOF target

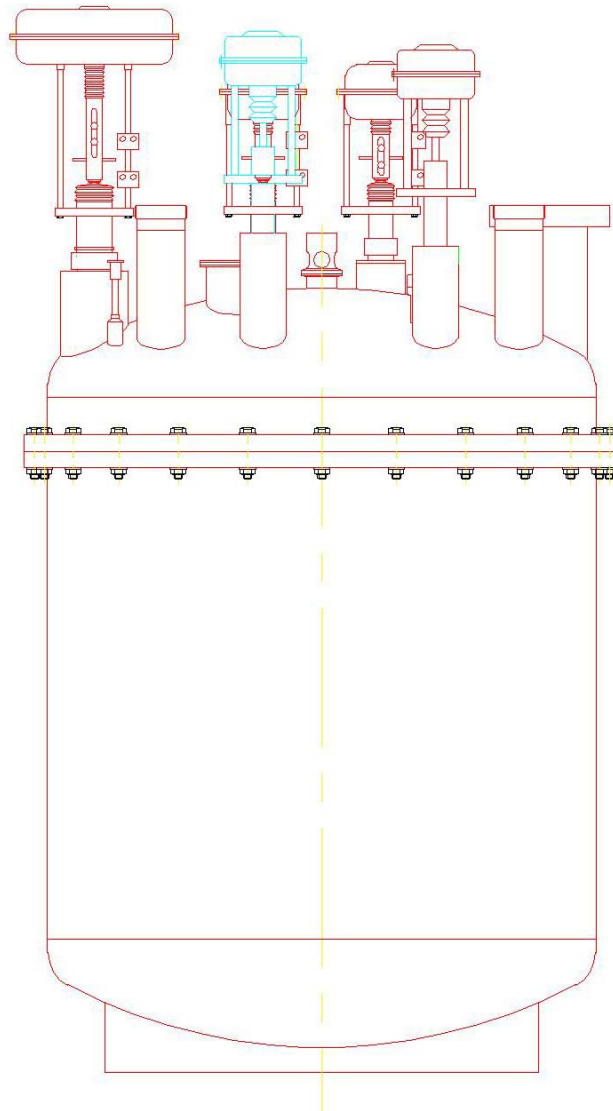
Data taking: “two-weeks” at the PS startup in 2007



Experiment at CERN



The Cold Valve Box



The Cryo Heater

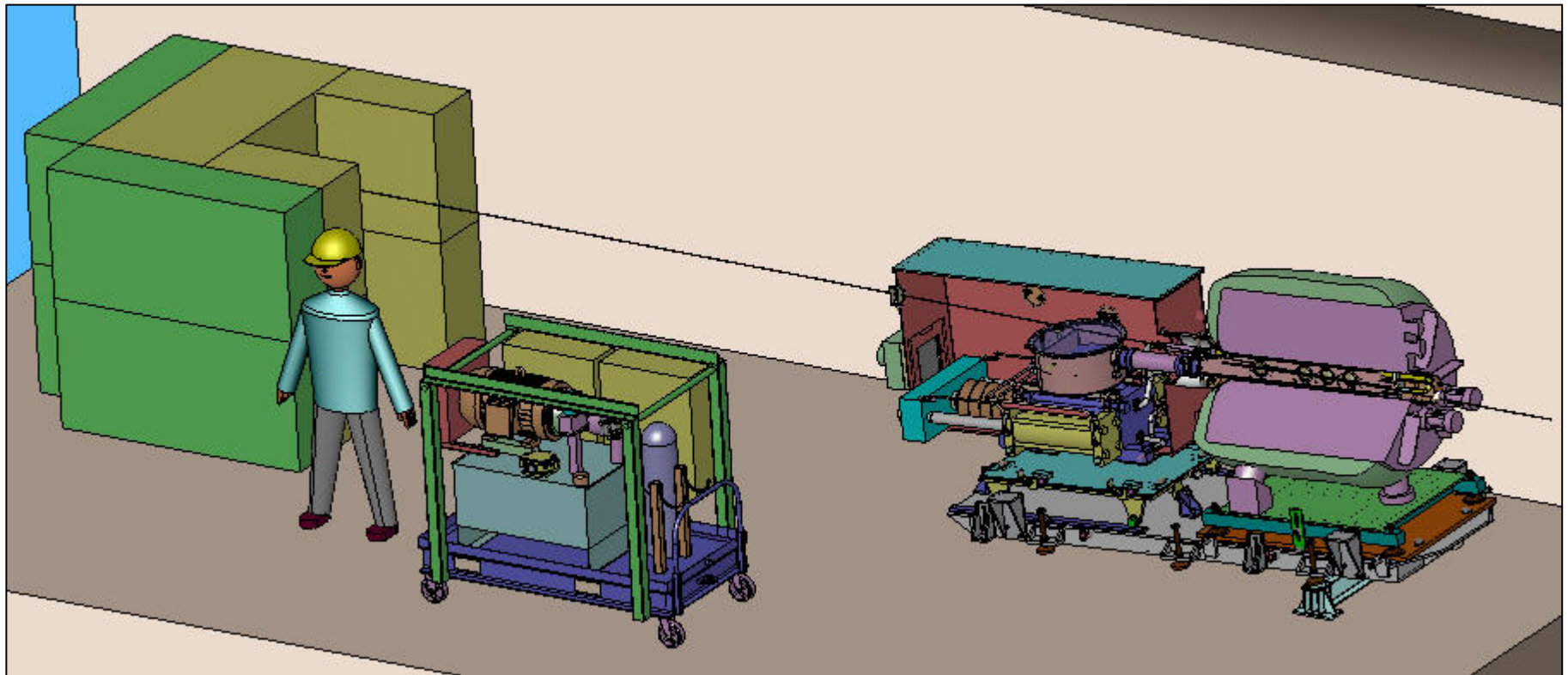


Experiment Layout

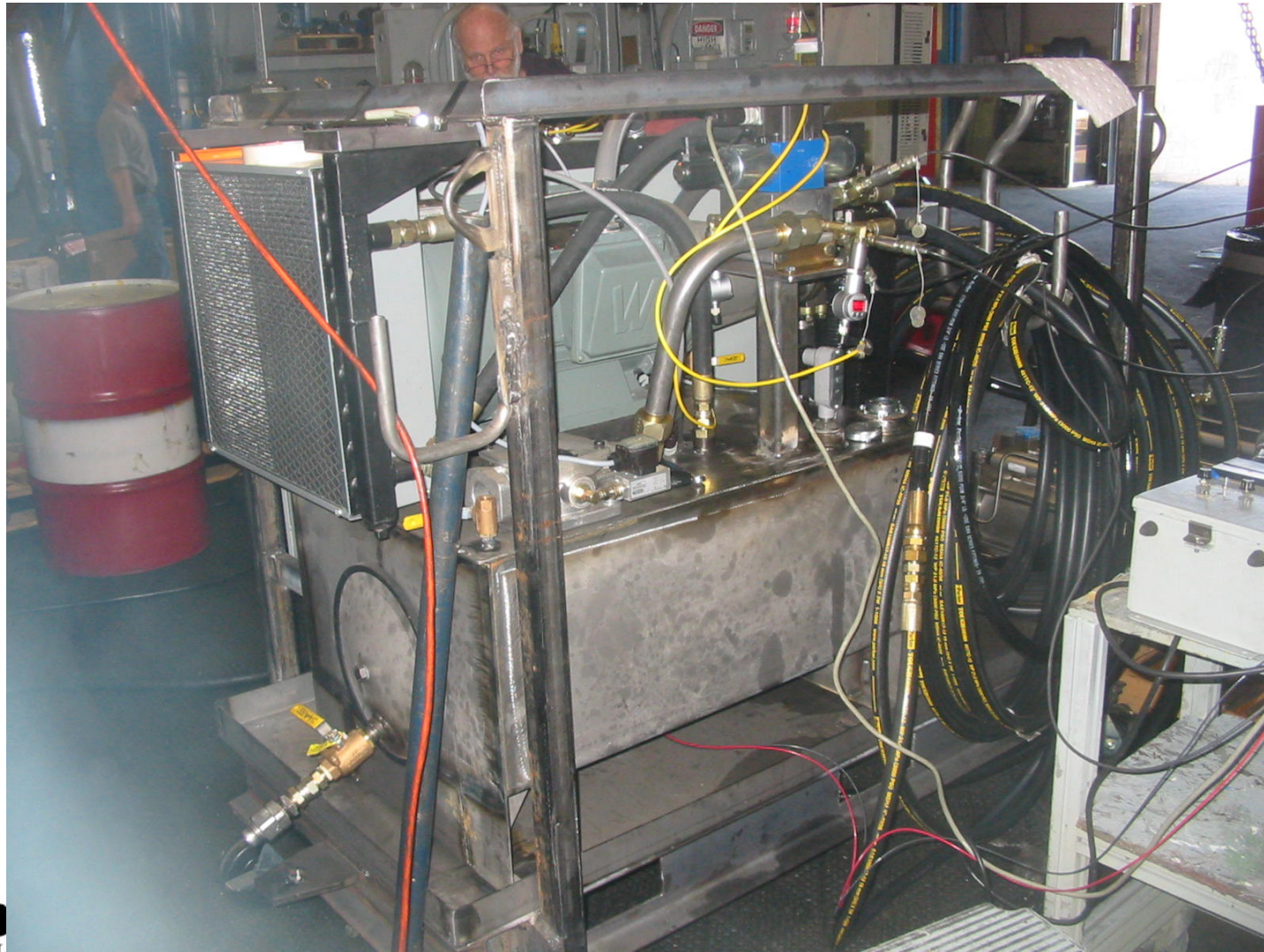
Hg target is a self-contained module inserted into the magnet bore

Two containment barriers between the Hg and the TT2A tunnel environment

Hydraulic pump will be in TT2, personnel in Bldg 272 remote control room



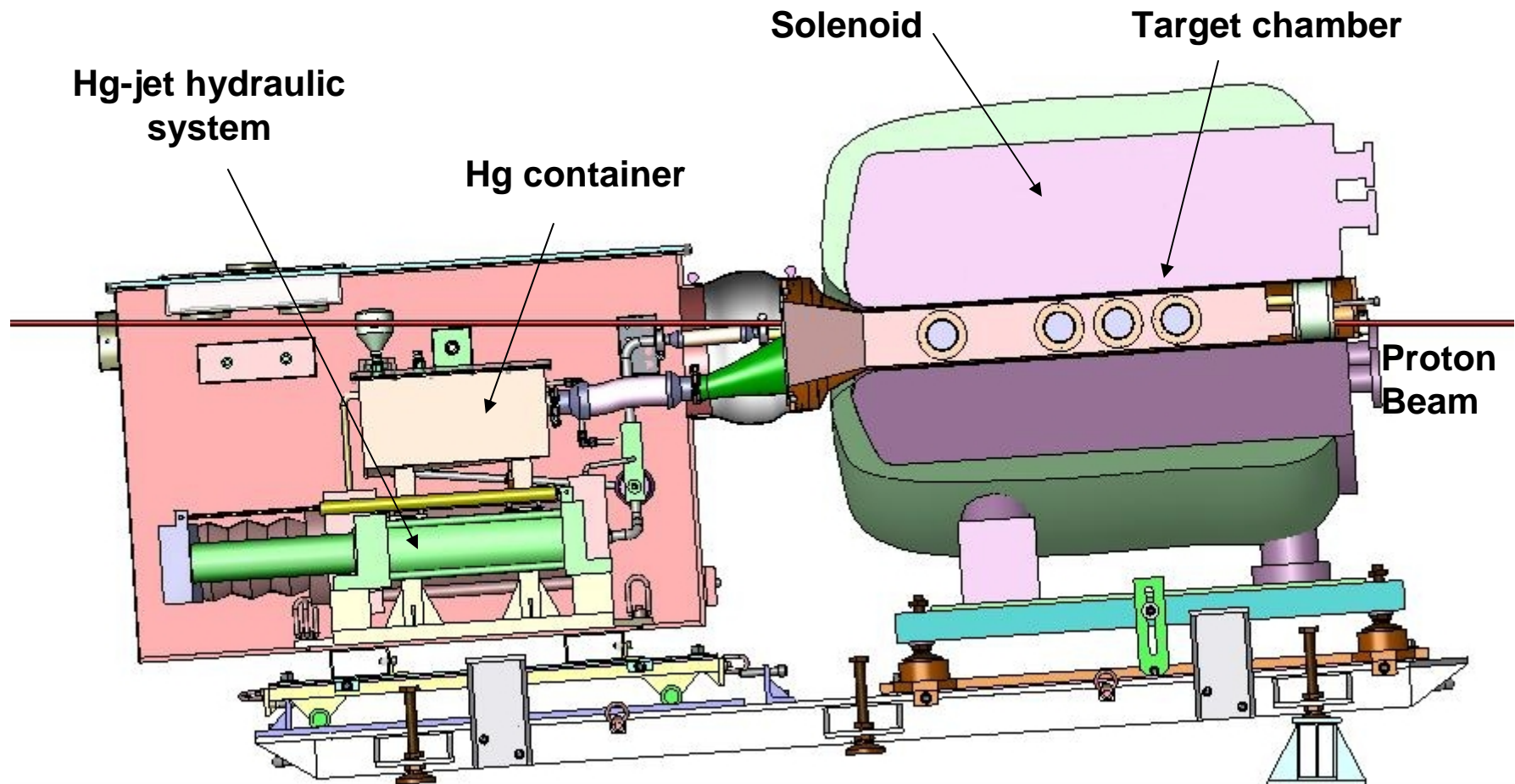
The Hg Jet Control Rack



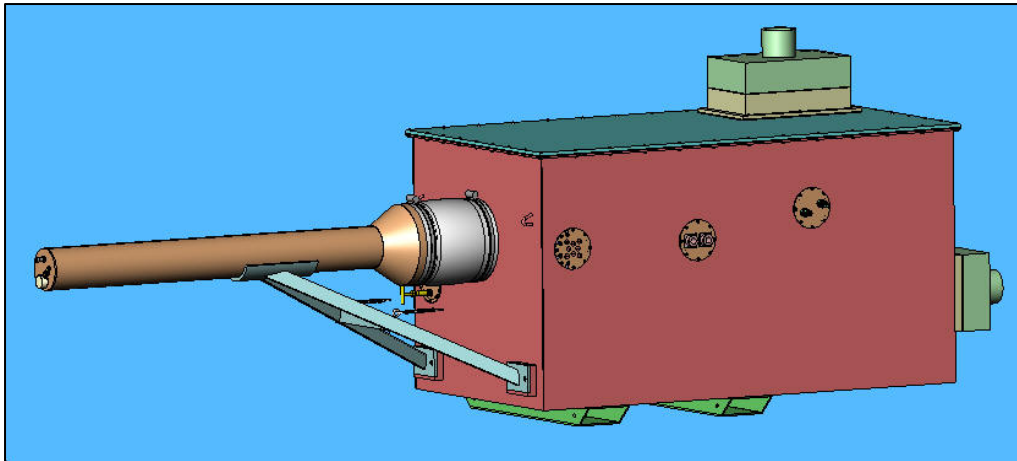
The Hg Jet Control Rack (cont)



The MERIT Experiment (2/3)

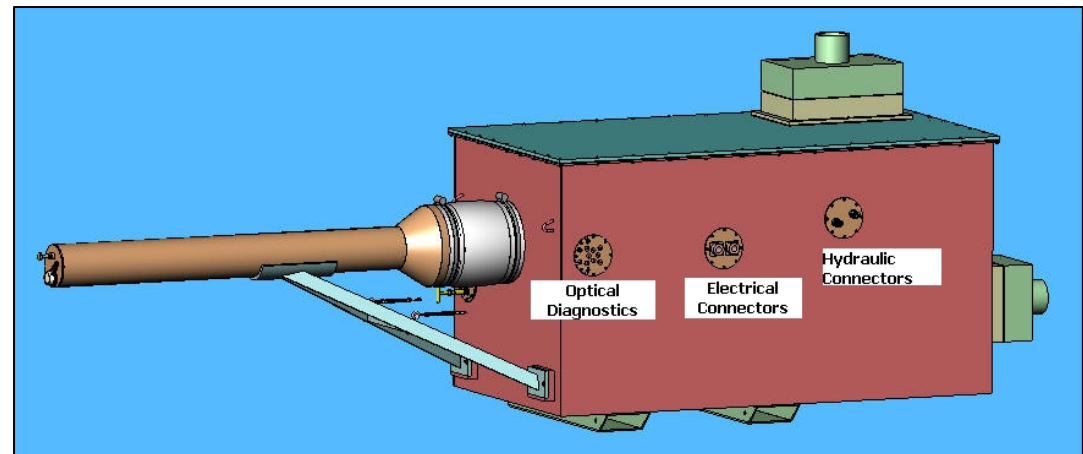
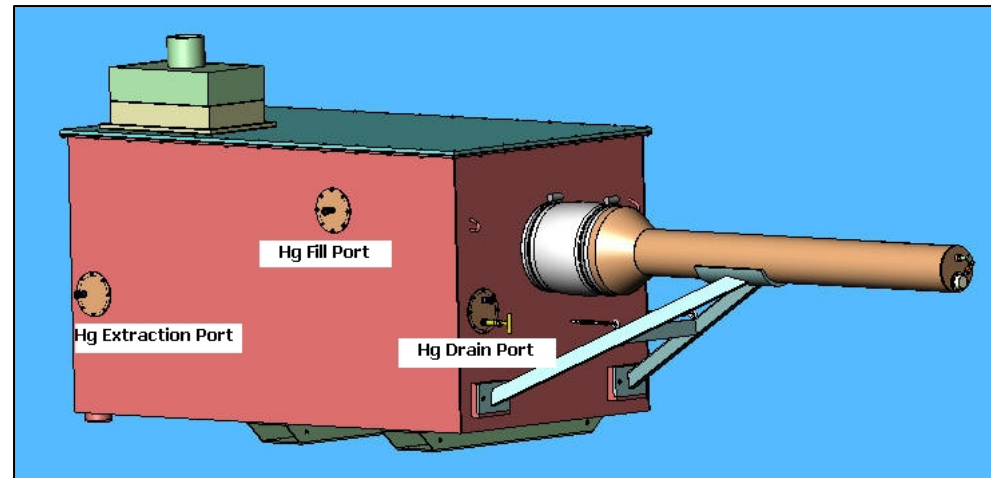


Hg Jet Secondary Containment

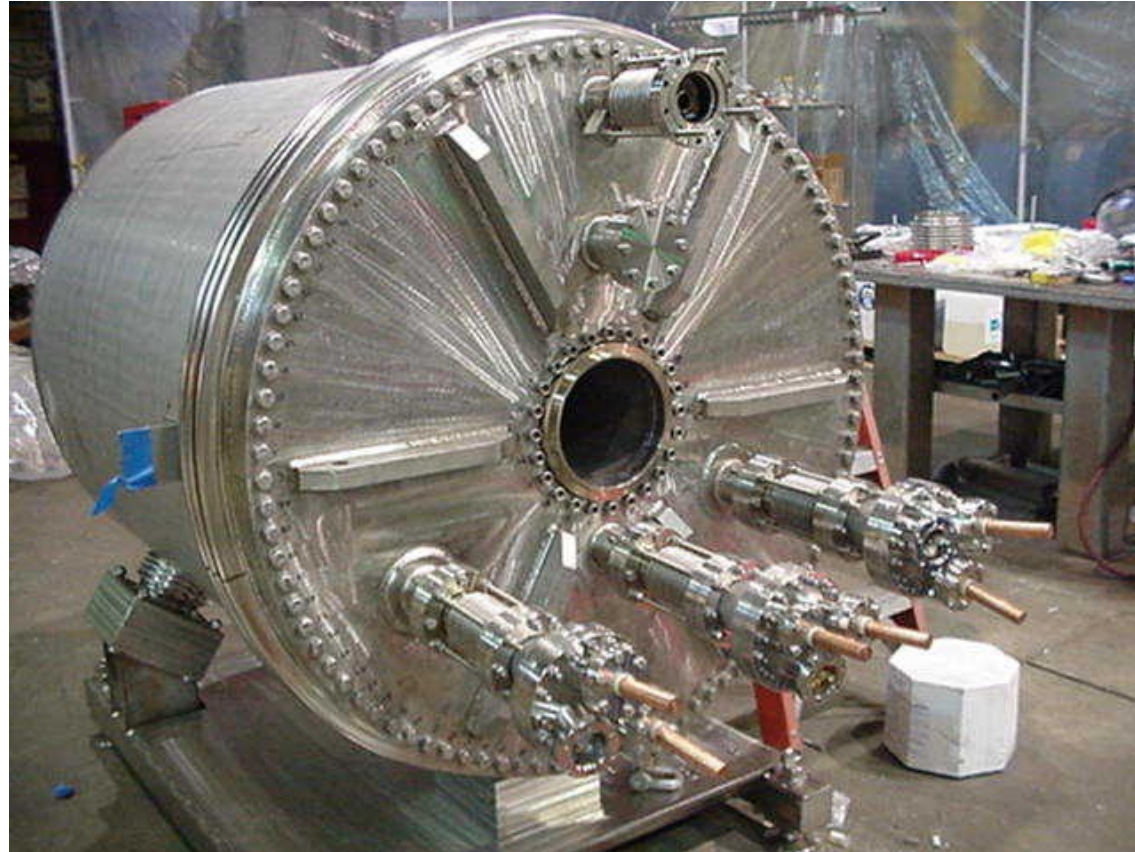


The Hg Jet System

- Hydraulics
- Instrumentation
- Optical diagnostics
- Hg drain & fill (without opening secondary)
- Hg extraction (in event of major leak in primary containment)
- Passive filtration



The Pulsed Solenoid



Rigging the Solenoid at MIT

Movie of moving the solenoid at MIT is found at:

<http://198.125.178.188/bnlpulsed/MERITMagRig.mpg>