MERIT – status and schedule

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http://cern.ch/merit

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Status

- Mercury loop
  - Tested at building 183; positive
  - Installed and operated in TT2A
    - Remotely controlled

- Solenoid & Cryostat
  - Insulation improved; magnet leads repacked
  - Performance at building 180 satisfactory
Safety reviews

- **Solenoid & cryogenics:**
  
  [https://edms.cern.ch/document/710659](https://edms.cern.ch/document/710659)
  Response: [https://edms.cern.ch/document/849566](https://edms.cern.ch/document/849566)

- **Mercury loop & transport**
  
  [https://edms.cern.ch/document/754444](https://edms.cern.ch/document/754444)
  Response: [https://edms.cern.ch/document/849574](https://edms.cern.ch/document/849574)

- **Pre-installation:**
  
  [https://edms.cern.ch/document/843377](https://edms.cern.ch/document/843377)
  Response: [https://edms.cern.ch/document/847354](https://edms.cern.ch/document/847354)
Open issues

No show-stoppers found.

- Collection and drainage of condensation on cryostat surface.
  - Catch basin connected to the tunnel drain – to be designed and installed

- Closing concrete shielding next to door D201
  - Limited time left for access to TT2 – needed for installation
  - Closing shaft during beam operation possible?
Access granted to TT2A on 11th, 14th and 18th June 2007
- “sufficient” to complete installation without cryogenic lines
- Installed by 18th June: safety systems, beam line, beam instrumentation, mercury loop, solenoid, diagnostics

Resources to install cryogenics limited
- AT/ECR committed to ATLAS installation during June-August
- Installation of remaining cryogenics during autumn or shut-down.

In agreement with physics coordinator and AB/OP
- Intermediate state of MERIT installation to allow beam commissioning with mercury loop and diagnostics systems still in year 2007
- Final MERIT physics in 2008