

TTCE status and updates

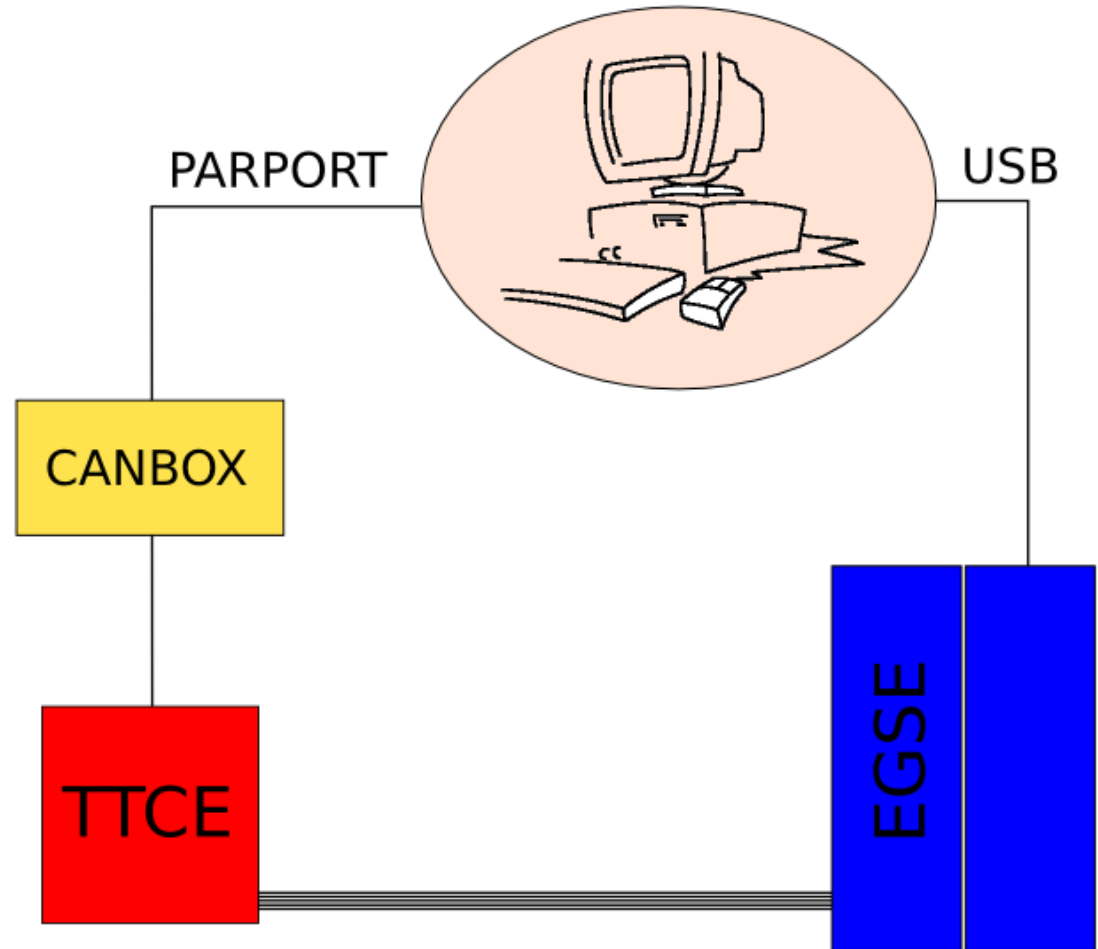
Mauro Menichelli
Gabriele Alberti
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INFN Perugia

Introduction

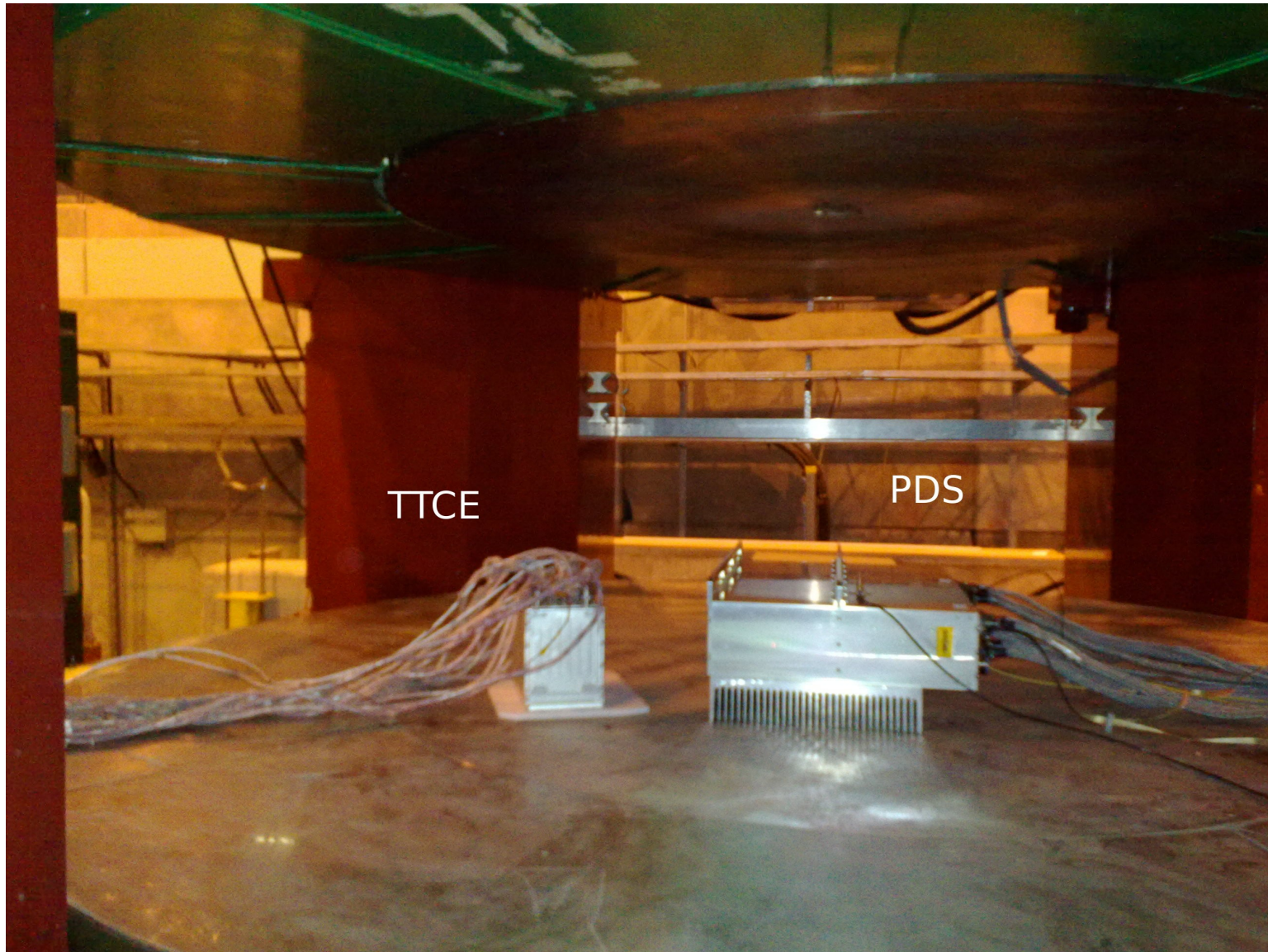
- TTCE is the electronic control of the Tracker Thermal Control System
- Standard qualification and acceptance tests (EMI/EMC, ESS, TVT) have already been performed and passed
- TTCE will have to work exposed to a strong static magnetic field.
- Mr Koutsenko computed that in the TTCE's closest point to the magnet the field is about $B_x = 90\text{G}$, $B_y = -221\text{G}$, $B_z = -171\text{G}$
 - On the toroid's plane (y-z) the field is about 279G
- On 20/21.11.2008 Mr Koutsenko and Gabriele Alberti performed a test reproducing these conditions here in CERN

Test setup

- Setup was the same as usual, TTCE, EGSE and a controlling pc
- We used the same functional test we already used for EMI/EMC,ESS,TVT
- The functional test was run while the TTCE was exposed to the magnetic field



TTCE in the magnet



4 February 2009

Gabriele Alberti

Test results

- The test has been performed on the QM
- The field has been applied along all the axis, with a maximum value of around 300G
- We found no problems in TTCE behaviour under the static magnetic field

Thanks

Comments are welcome
gabriele.alberti@pg.infn.it