Report LHCb

Lucio Anderlini

Business as usual (in no-data-taking conditions)

- Reduced pressure on Run2 MC
- Disk quota below pledge
- Well below tape pledges





pledge

July 2023

25.3 PB

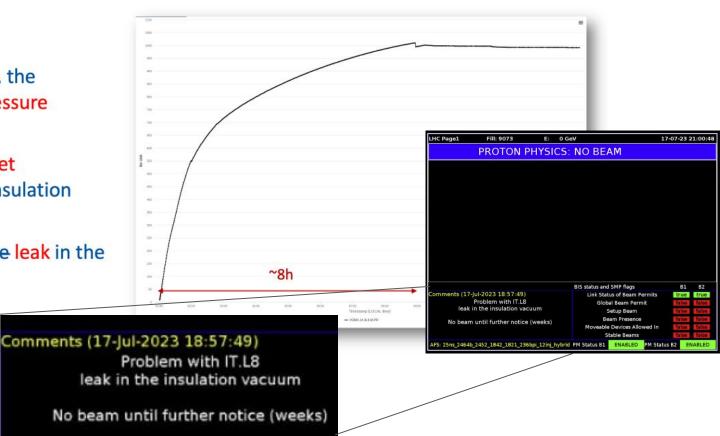
Major LHC incident Electrical perturbation Sunday 16

- Beams dumped at 01:00:17
 by RF trip
- Few hundreds of milliseconds later several magnets quenched:
 - RQ7/9/10.R4
 - RQ10.R8
 - RQX.L8
- The heat wave generated by RQX.L8 quench made IP8 cold compressor trip



RQX.L8 insulation vacuum

- Following the quench, the insulation vacuum pressure increased
- Visible effect of magnet depressurization on insulation vacuum pressure
- Indication of a possible leak in the vacuum vessel



Updated Plan for a next Tape Challenge

Report LHCL

Plan for a next Tape Challenge

October

Target: complete the challenge before the end of September

- 1. Remount /storage/gpfs_lhcb/lhcb/disk/LHCb → /storage/gpfs_lhcb/lhcb/LHCb scheduling downtime if needed
- 2. We run a validation test on a CNAF user interface to ensure everything is in place
- 3 We restart the production and validate
- 4. If in the meanwhile developments for Storm TAPE Rest API get ready, we include them also for LHCb
- 5. We run the tape challenge

Moving buffer to SSD would not cause any issue for LHCb, but might require more time CNAF side: test postponed

Token-based AuthN/Z for storage requires some additional discussion and agreement on the policy to adopt. Definitely not for this Tape Challenge. CNAF agreed on being a "test-bed".

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June 2023

CdG Tier 1 - 16 giugno 2023