

DT Contributions to LHCb Cooling

November 27th, 2018

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Cooling from DT: LHCb Velo & UT

Detector cooling construction

EXISTING WP: “CO2 cooling system for the LHCb Velo and UT: construction, installation and commissioning workpackage between PH-DT and LHCb” <https://edms.cern.ch/document/1575817/3>

The installation is foreseen at P8 during Spring 2019, with a commissioning with the detector 1 year later.

The DT resources allocated to this project, before it moves to M&O, are 1.5 FTE for 2019 and 1.5 FTE for 2020, shared between P. Tropea (project leader), J.Daguin, D. Giakoumi, B. Verlaat, L. Davoine (FELL), L. Zwalinski, A. D’Auria.

Detector Cooling M&O

Common service agreements with the LHC experiments for M&O of CO2 cooling systems. Up to 2018, this was including only CMS and ATLAS. As of 2019, the new release will include and cover also LHCb.

Given the size of the systems before LS3, the share will be equal between the three experiments.

The existing WP can be found here: <https://edms.cern.ch/document/1893519/2>

DT resources are not accounted against a given experiment, are considered common EP services to all LHC experiments. In total, 1 FTE from DT is occupied in M&O service. The M&O agreement also ask for the total financing by the experiments of 1 FSU and the contribution with 0.1 FTE technician or engineer to the operation & maintenance team (piquet included). The resources of LHCb need to be defined.