

## The Detector Control System safety interlocks of the Diamond Beam Monitor.

### Content

Diamond Beam Monitor (DBM) is one of the ATLAS sub-detector which is designed to provide luminosity measurements and is a part of the Pixel Detector. At the ATLAS experiment, the Detector Control System (DCS) is used to oversee the hardware conditions and ensures a safe, a correct and an efficient experiment operation. The Safety interlocks, which are implemented into DCS, has one of the major importance for the DBM operation, as they provide the real-time processing of the hardware operational parameters and an immediate reaction on the hardware state and status changes. The following safety interlocks developed and enhanced during two years of the DBM operation will be presented in the poster in some detail.

### Summary

The poster will present the basic interface of the detector control system, which is currently used by LHC. In particular, the safety and monitoring system which has been developed for one of the ATLAS detector - DBM.

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