

Hardware Changes in the LHC BLM System During LS1

Authors:

C. Zamantzas, B. Dehning, E. Effinger, V. Grishin, S. Jackson
CERN, Geneva, Switzerland

Abstract:

The strategy for machine protection and quench prevention of the LHC is heavily relying on the Beam Loss Monitoring (BLM) system. In this paper, a review of the operational experience with the system of the last running period, i.e. 2012, will be given together with the areas where required improvements were identified. Further, the foreseen changes during the first Long Shutdown (LS1) concerning the equipment, the code of the reprogrammable devices, the supporting applications, as well as the commissioning steps, will also be summarised.