

BLM thresholds - past experience

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Abstract

The history and motivation of dump threshold changes for the Beam Loss Monitoring (BLM) system throughout the 2012 run are described here. Also discussed are several dedicated beam experiments to probe the quench levels at different time scales foreseen for the end of the current run. The implications of these results to the threshold strategy are outlined. Moreover, the noise inherent to the BLM system may become an operational limitation in 2014 if running with the current dump thresholds. The most critical locations are discussed and revised thresholds are proposed that would mitigate the problem. Finally, the installation of new BLMs or the relocation of existing ones will require modifications that are explained in this document.