

BLM Threshold Strategy (vs UFOs and Quenches)

Tuesday, September 23, 2014 6:00 PM (20 minutes)

BLM thresholds around the ring need to be updated for 6.5 TeV operation during Run 2. This presentation focuses on the UFO beam-loss scenario: dedicated quench tests at the end of Run 1 have helped to update quench-level estimates; comprehensive FLUKA simulations were carried out to improve the predicted BLM signals and local energy-deposition; based on these simulations, one out of three BLMs in the arcs were re-located to improve the BLM sensitivity. We show the expected impact of all these changes. The discussion of the UFO scenario is followed by an overview of other beam-loss scenarios.

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