



Contribution ID: 11

Type: **not specified**

Quench margins

Monday, 6 February 2012 19:00 (20 minutes)

With thirteen beam induced quenches and numerous Machine Development tests the current knowledge of LHC magnets quench limits still contains a lot of unknowns. Various approaches to determine the quench limits are reviewed and results of the tests are presented. Attempt to reconstruct a coherent picture emerging from these results is taken. The available methods of computation of the quench levels are presented together with dedicated particle shower simulations which are necessary to understand the tests. The future experiments, needed to reach better understanding of quench limits as well as limits for the machine operation are investigated. The possible strategies to set BLM thresholds are discussed.

Presenter: SAPINSKI, Mariusz Gracjan (CERN)

Session Classification: S02 - Machine Studies