

Emittance Scans Studies at ATLAS ,CERN LHC

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Abstract

A new type of short beam separation scans (“Emittance Scans”) was initiated at the ATLAS Experiment, at the CERN LHC, in 2018. Emittance scans are beam separation scans in which the beams are scanned across each other in the x and y planes. At every separation point we estimate the average interactions, also called the luminosity of the accelerator. These studies involved searching for a suitable fit function. The luminosity can then be computed from the resulting function. The purpose of these studies is to understand the beam quality and also cross check the performance of our algorithms during physics data taking.

Abstract Track

Flash talk, LHC

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