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【345】 The LHCb magnetic field map

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The LHCb detector at CERN uses a magnetic field of bending power 4 Tm to measure properties such as charge and momentum of particles produced in collisions. An exact map of the magnetic field of the LHCb dipole improves the resolution and accuracy of these reconstructed properties, which greatly influence the precision of LHCb analyses. The development of the magnetic field map for Run 3 of the LHC, using finite element analysis (simulation) as well as field measurements taken in situ, is presented.

Primary author: BACHMAYER, Marie (EPFL - Ecole Polytechnique Federale Lausanne (CH))

Presenter: BACHMAYER, Marie (EPFL - Ecole Polytechnique Federale Lausanne (CH))

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