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# Muon LHCb geometry

# General informations

This page is intended to be a repository of documents about the LHCb Muon Geometry.

The most significant changes for muon upgrade phase-1 are in HCAL region:

- 1) new beam-plug under HCAL with new tolerances;
- 2) inner HCAL cells replaced with tungsten shielding to reduce the rate into M1;
- 3) tungsten shielding implemented in DDDDB;
- 4) the description of the M5 shielding is in DDDDB.

For the future upgrade phase-2 a new shielding wall is under study.

# Software

# Material

Additional shielding and simulation [↗](#) by A. Sarti (Discussion Muon Phase 2)

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