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The LHCb Upgrade II

LHCb Upgrade II Organisation

Upgrade 2 Planning Group (UPG)

Upgrade Ib (LS2) and Upgrade II (LS3) matters are overseen by the U2PG:

Membership:

- Spokesperson Chris Parkes [↗](#)
- Deputy Spokesperson and Chair Matteo Palutan [↗](#)
- Oversight of Accelerator and Technical Coordination Eric Thomas [↗](#)
- Oversight of Physics Vincenzo Vagnoni [↗](#)
- Oversight of Tracking Detectors Matthew Needham [↗](#)
- Oversight of Particle Identification Detectors Guy Wilkinson [↗](#)
- Oversight of Online/RTA/Computing Renaud Le Gac [↗](#)
- Upgrade Resources Board chair Andreas Schopper [↗](#)

Expression of Interest (EoI) for an LHCb Upgrade II

- The LHCb Upgrade II EoI was submitted to the LHCC in February 2017.
- Feedback was received in the LHCC Minutes Feb 2017 [↗](#)
- The submitted EoI is available on CDS: CERN-LHCC-2017-003 [↗](#)

Physics Case (PC) for an LHCb Upgrade II

- The LHCb Upgrade II PC was submitted to the LHCC in August 2018.
- Feedback was received in the LHCC Minutes Sept 2018 [↗](#)
- The submitted PC is available on CDS: CERN-LHCC-2018-027 [↗](#)

Accelerator Note for LHCb Upgrade II

- The feasibility of an LHCb Upgrade II at the HL-LHC is studied in an accelerator group note CERN-ACC-NOTE-2018-0038 [↗](#)
- Recommendations from the U2PG on the preferred operating conditions and luminosity in response to the accelerator note are given in CERN-LHCb-PUB-2019-001 [↗](#)

LHCb Internal Review

- Projects for Upgrade Ib were reviewed in early 2019 and the recommendations of the U2PG are given in CERN-LHCb-INT-2019-011 [↗](#)
- A review of projects for Upgrade II is foreseen for autumn 2019.

LHCb Upgrade II Workshops

- 1st Workshop "Theatre of Dreams" Manchester 2016 [↗](#)
- 2nd Workshop Elba 2017 [↗](#)
- 3rd Workshop Annecy 2018 [↗](#)
- 4th Workshop Amsterdam 2019 [↗](#)
- 5th Workshop Barcelona 2020 [↗](#)

LHCb Upgrade II Project webpages

- [U2 VELO](#)
- U2 Tracking
- U2 Mighty Tracker
- U2 ECAL
- U2 UT

-- ChrisParkes - 2019-05-21

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