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Upgrade II Mighty Tracker

The LHCb experiment is being upgraded during LS2 (2019 - 2021) to run at higher luminosities. A further major upgrade is planned for LS4, around 2031, again increasing the luminosity to allow a much larger data set to be accumulated. There will also be consolidation work during LS3 in 2025. The Mighty Tracker will combine the scintillating fibre technology together with CMOS pixel technology for the inner part of the tracking stations, in order to run in the challenging Upgrade 2 environment. A detector design is needed for the Framework TDR to be finalised in 2021.

The Mighty Tracker project is part of the SciFi Tracker project, and it currently consists of three work packages:

CMOS Sensor and electronics

- [Sensor and electronics page](#)

Modules and mechanics

- [Modules and mechanics page](#)

Simulation and performance

- [Simulation and performance page](#)

Summaries of informal discussions are below

2020

| What | When | Where |

 Mighty Tracker discussion 	07/10/2020	Zoom
 Mighty Simulation 	01/10/2020	Vidyo
 Mighty Tracker discussion 	02/09/2020	Vidyo
 Mighty Tracker testbeam (Corryvrecken Tutorial) 	14/08/2020	Vidyo
 Mighty Tracker discussion 	12/08/2020	Vidyo
 Mighty Tracker discussion 	05/08/2020	Vidyo
 Mighty Tracker discussion 	29/07/2020	Vidyo
 Mighty Tracker discussion 	22/07/2020	Vidyo
 Mighty Tracker discussion 	15/07/2020	Vidyo
 Mighty Tracker discussion 	08/07/2020	Vidyo
 Mighty Tracker discussion 	01/07/2020	Vidyo
 Mighty Tracker discussion 	24/06/2020	Vidyo
 Mighty Tracker discussion 	17/06/2020	Vidyo
 Mighty Tracker discussion 	03/06/2020	Vidyo
 Mighty Tracker discussion 	27/05/2020	Vidyo
 Mighty Tracker discussion 	20/05/2020	Vidyo
 Mighty Tracker discussion 	13/05/2020	Vidyo
 Mighty Tracker discussion 	29/04/2020	Vidyo
 Mighty Tracker discussion 	22/04/2020	Vidyo
 Mighty Tracker discussion 	15/04/2020	Vidyo
 Mighty Tracker discussion 	25/03/2020	Vidyo
 Mighty Tracker discussion 	18/03/2020	Vidyo
 MuPix/AtlasPix discussion 	11/03/2020	Vidyo
 MuPix/AtlasPix discussion 	04/03/2020	Vidyo
 MuPix/AtlasPix discussion 	12/02/2020	Vidyo
 MightyPix discussion 	31/01/2020	Vidyo
 MuPix/AtlasPix discussion 	29/01/2020	Vidyo
 MuPix/AtlasPix discussion 	15/01/2020	Vidyo

2019

| What | When | Where |

 U2 Tracking discussion 	11/12/2019	Vidyo
 U2 Tracking discussion 	27/11/2019	Vidyo
 U2 Tracking discussion 	20/11/2019	Vidyo
 U2 Tracking discussion 	06/11/2019	Vidyo
 U2 Tracking discussion 	23/10/2019	Vidyo
 U2 Tracking discussion 	09/10/2019	Vidyo
 MuPix/AtlasPix discussion 	27/09/2019	Vidyo
 U2 Tracking discussion 	11/08/2019	Vidyo
 U2 Tracking discussion 	21/07/2019	Vidyo
 U2 Tracking discussion 	07/07/2019	Vidyo
 MuPix/AtlasPix discussion 	26/07/2019	Vidyo
 U2 Tracking discussion 	24/07/2019	Vidyo
 MuPix/AtlasPix discussion 	17/07/2019	Vidyo

<https://indico.cern.ch/event/834041/> > U2 Tracking discussion 	10/07/2019	Vidyo
<https://indico.cern.ch/event/832806/> > U2 Tracking discussion 	03/07/2019	Vidyo
<https://indico.cern.ch/event/830981/> > MuPix/AtlasPix discussion 	25/06/2019	Vidyo
<https://indico.cern.ch/event/825378/> > U2 Tracking discussion 	12/06/2019	Vidyo
<https://indico.cern.ch/event/825377/> > MuPix/AtlasPix discussion 	04/06/2019	Vidyo
<https://indico.cern.ch/event/821560/> > U2 Tracking discussion 	29/05/2019	Vidyo
<https://indico.cern.ch/event/822508/> > MuPix/AtlasPix discussion 	22/05/2019	Vidyo
<https://indico.cern.ch/event/820947/> > U2 Tracking discussion 	15/05/2019	Vidyo
<https://indico.cern.ch/event/815011/> > U2 Tracking discussion 	01/05/2019	Vidyo
<https://indico.cern.ch/event/814749/> > U2 Tracking discussion 	17/04/2019	Vidyo
<https://indico.cern.ch/event/809419/> > U2 Tracking discussion 	27/34/2019	Vidyo
<https://indico.cern.ch/event/805274/> > U2 Tracking discussion 	13/03/2019	Vidyo
<https://indico.cern.ch/event/799091/> > U2 Tracking discussion 	27/02/2019	Vidyo
<https://indico.cern.ch/event/794976/> > U2 Tracking discussion 	13/02/2019	Vidyo
<https://indico.cern.ch/event/790563/> > U2 Tracking discussion 	30/01/2019	Vidyo
<https://indico.cern.ch/event/789739/> > U2 Tracking discussion 	16/01/2019	Vidyo

2018

<https://indico.cern.ch/event/781210/> > U2 Tracking discussion 	19/12/2018	Vidyo
<https://indico.cern.ch/event/775880/> > U2 Tracking discussion 	12/12/2018	Vidyo
<https://indico.cern.ch/event/772124/> > U2 Tracking discussion 	21/10/2018	Vidyo
<https://indico.cern.ch/event/769813/> > U2 Tracking discussion 	07/10/2018	Vidyo
<https://indico.cern.ch/event/765036/> > U2 Tracking discussion 	24/10/2018	Vidyo
<https://indico.cern.ch/event/764132/> > U2 Tracking discussion 	10/10/2018	Vidyo
<https://indico.cern.ch/event/760795/> > U2 Tracking discussion 	26/09/2018	Vidyo
<https://indico.cern.ch/event/742862/> > Brainstorming on simulation studies 	13/07/2018	Vidyo
<https://indico.cern.ch/event/739273/> > Brainstorming on simulation studies 	06/07/2018	Vidyo
<https://indico.cern.ch/event/737956/> > Brainstorming on simulation studies 	22/06/2018	Vidyo
<https://indico.cern.ch/event/734197/> > Brainstorming on simulation studies 	08/06/2018	Vidyo
<https://indico.cern.ch/event/730913/> > Brainstorming on simulation studies 	22/05/2018	Vidyo
<https://indico.cern.ch/event/726545/> > Brainstorming on simulation studies 	3/05/2018	Vidyo
<https://indico.cern.ch/event/722580/> > Brainstorming on simulation studies 	19/04/2018	Vidyo
Summary of brainstorming	29/03/2018	Vidyo

-- FredericBlanc - 2020-10-09

This topic: LHCb > MightyTracker

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