



Upgrade News

Calorimeter Upgrade Meeting

Frédéric Machefert Wednesday February, 11th

LOI

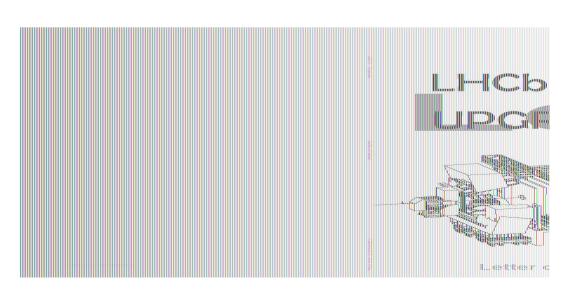


- The Letter of Intent should soon be released
 - The Physics motivations and sensitivities have been added to the detector parts
- Each section was revised by referees
 - Calo : Ken Wyllie and Ueli Straumann
 - Very fruitful comments → most of them have been included into the section
- TB on February 3rd → No major problem identified whatever the LOI section
- I sent the latest version to Ken and the contributors. Got few remarks from
 - Jacques
 - Ken / Sheldon
 - David

That have been included in the final document. You can find it on

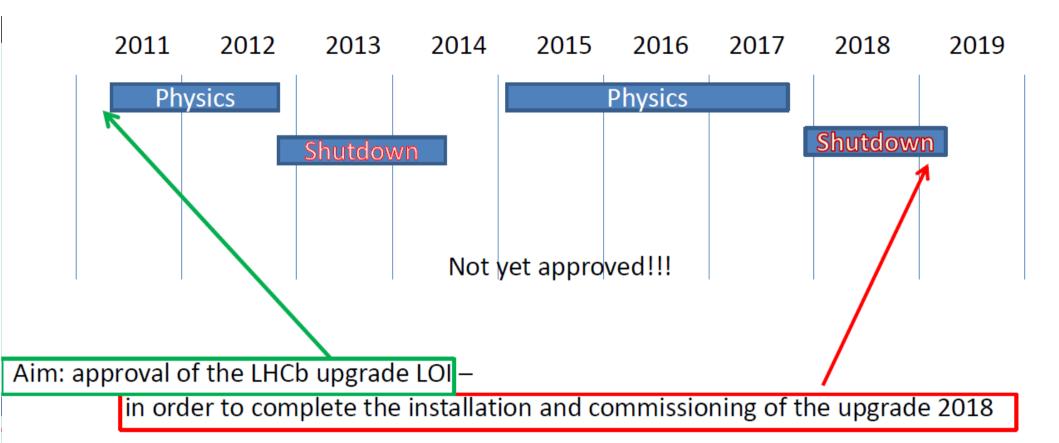
https://lbtwiki.cern.ch/bin/view/CALO/CaloUpgrade

I will send it this afternoon to Sheldon



Upgrade - planning





- Short term planning
 - On February 13rd, the LOI should be released to the collaboration
 - On February 28th, the LHCb upgrade LOI is submitted to the LHCC
 - First recommendations/comments from the LHCC by the summer ???

Electronics and next calo upgrade meeting



- Yesterday we had nice (dense) talks in the Electronics meeting
 - TFC
 - DAQ
- The next general electronics meeting will be mostly devoted to
 - Power supplies
 - DC-DC converters
 - Regulators
 - We need to exchange information to prepare a list of our needs
 - per board (DC-DC converters, regulator)
 - on the full system scale (power supplies)
 - The purpose is to re-use the maximum of the hardware we already have
 - We met Georges Blanchot yesterday → may provide some DC-DC for analog/digital
 - We should be able to do some tests with our prototypes
- The discussion concerning the TFC/TELL40 yesterday showed that we should probably try to have clearer ideas on the design for the calo
 - Need to define it more precisely for the next meeting (schematics of the system)
 - Need also to define more precisely the Low Level Trigger path (Cyril)
 - This is something that we could put at the agenda of our next meeting in April

News



- A first set of data has been produced (Gauss)
 - Luminosity: 2x10³³ cm⁻²s⁻¹
 - Calorimeter includes SPD/PRS
 - Did not dare yet to remove them (trigger effect)
 - Propose : We should try to have a sample without the SPD/PRS
 - The effect of having less matter in from of the ECAL for reconstruction ?
 - Linked to the decision on the PS/SPD
 - Most of the sub-detectors started to work on the simulations for the upgrade
 - We should find people in the calorimeter group to work on simulations!

SPD/PRS

- Marginally improves trigger
 - As an effect on offline reconstruction (10-20% ↑ eff(γ))
- More matter in front of the ECAL/HCAL
- Other groups may wish to use the SPD/PRS released space (TORCH?)
- No one involved in SPD/PRS studies (simulations, feasibility, etc...)