

Short feedback from ECFA workshop

ECFA High Luminosity LHC Experiments Workshop - 2016, [link](#)

Monday - Thursday 3 - 6 October 2016, Aix-les-Bains

**Here only reporting from Monday which had the general and machine related parts
+ some of my impressions (Gianluigi, Oliver .. please add)**

Previous workshops :

ECFA High Luminosity LHC Experiments Workshop, 1-3 Oct. 2013, [link](#)

ECFA High Luminosity LHC Experiments Workshop, 21 - 23 Oct. 2014, [link](#)

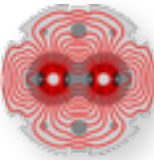
and to some extend :

Joint Machine-Experiments session on Thursday 29/10/2015 of our

[5th Joint HiLumi LHC-LARP Annual Meeting](#)

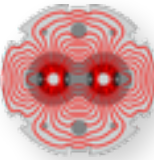


Monday morning session



- **Welcome and introduction Didier Contardo + Kevin Einsweiler**
- **CERN's Scientific Strategy, Fabiola Gianotti, (mostly non LHC)**
- **The new-physics landscape of HL-LHC, Matthew Mccullough**
- **Accelerator Overview, Frederick Bordry**

- **ALICE upgrade status and outlook, Werner Riegler**
- **LHCb upgrade status and outlook, Chris Parkes**
- **ATLAS upgrade status and outlook, Brian Petersen**
- **CMS upgrade status and outlook, Meenakshi Narain**



Accelerator and Experiment Interface Session (chaired by Oliver + me)

Options for beam operation and luminous region

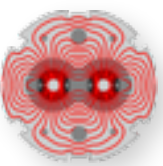
- Accelerator operation and luminous region scenarios, Gianluigi Arduini
- ATLAS performance, Brian Petersen
- CMS performance, Patrizia Azzi

Beam Background and beam failure

- Accelerator scenarios, Roderik Bruce
- Impact on ATLAS and CMS, Antonio Sbrizzi

LS2, LS3... Planning (convenors Ludovico Pontecorvo and Karl Aaron Gill)

- Accelerator, Laurent Tavian
- ALICE and LHCb, Eric Thomas
- ATLAS, Michel Raymond
- CMS, Wolfram Zeuner



High-lumi machine LHC and very major detector upgrades --- a real project with impressive amount of detailed work on both sides

Very busy on all sides and already talking to each other in various meetings

+ still very useful to bring all together and discuss on a yearly basis

Good suggestions and difficult questions :

much interested in details of running schemes and options

hard (impossible ?) to get simple quantitative answer on impact of pile-up, density ..

even $\mu = 200$ not such a hard limit, but degrading performance for certain physics

interest in tests related to risks and damage level

pixel tests in HiRadMat - combined with Collimation tests ?

What would be needed to completely exclude fast failure scenarios like asynchronous beam-dump ?