

ECFA High Luminosity LHC Experiments Workshop - 2014

Tuesday, October 21, 2014 - Thursday, October 23, 2014

Scientific Program

As well as an introductory talk on the HL-LHC programme and brief updates on planning in the four LHC experiments, the workshop will cover the following aspects in relation to the HL-LHC programme:

- Accelerator and experiment interface, activation and mitigation
- Physics goals and performance reach
- Solid-state tracking detectors
- Scintillating devices
- Gaseous detectors
- Mechanics and cooling
- Electronics systems
- Trigger, online and offline computing

The workshop will focus on the physics requirements and subsequent technology research and development needs, with a view towards identifying synergies and common approaches where further collaboration between experiments could be of benefit. The work builds on the success of the 2013 ECFA High Luminosity LHC Experiments Workshop (also at Aix-les-Bains) with report at ECFA-13-284 . An updated report will be prepared based on the outcomes of the 2014 workshop.