**Alexandra Oliveira**  
**Study of HH production at CMS**  
The production of pairs of Higgs bosons provides a direct handle on the structure of the Higgs field potential. While HH production within the SM is very small, several beyond-SM theories foresee an enhancement that can be already probed with the available data.

**Valerio Rossetti**  
**Performance of the ATLAS calorimeters and commissioning for LHC Run-2**  
The ATLAS experiment at the LHC is equipped with electromagnetic and hadronic liquid-argon (LAr) calorimeters and a hadronic scintillator-steel sampling calorimeter (TileCal) for measuring energy and direction of final state particles. We review the main commissioning and performance results of data-taking from 2009 until now.

**Badder Marzocchi**  
**Precision electromagnetic calorimetry at the energy frontier: The CMS ECAL at the LHC Run 2**  
The LHC Run 2 has recently begun, at energy of 13 TeV. After the successful Higgs boson discovery via the diphoton decays, the CMS electromagnetic calorimeter is at the forefront of the search for new physics and precision measurements. Its excellent performance relies on precision calibration maintained over time, despite severe irradiation conditions.

**Valeria Birnkraut**  
**b-flavour tagging in pp collisions (LHCb)**  
Measurements of flavour oscillations and time-dependent CP asymmetries in neutral B meson systems require knowledge of the b quark flavour at production. This identification is performed by the flavour tagging.

**Lucas Cremonesi**  
**Status of the Hyper-Kamiokande Project**  
Hyper-Kamiokande is a future experiment in Japan which will use almost one MegaTon of water under 1 km of rock to see the most elusive particles in the universe, neutrinos, and in turn discover the secrets of the asymmetry between matter and antimatter in the universe.

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**Andrew Wharton**  
**What’s the matter with antimatter?**  
At the time of the big bang, the universe contained almost equal amounts of matter and antimatter, however by about three minutes later almost all the antimatter had disappeared! In this talk I’ll explain one way we might try to unravel this mystery, by understanding the breaking of the charge-parity symmetry in weak interactions.

**Simon Vercaemer**  
**Neutron identification in the SoLid experiment**  
The SoLid experiment aims to make a short baseline neutrino oscillation measurement at the BR2 reactor in Belgium. Neutrons are detected via inverse beta decay (IBD) on a proton, yielding a positron and a neutron. Crucial for IBD reconstruction is a highly efficient neutron id.

**Erica Brondolin**  
**CMS tracking challenges yesterday, today and tomorrow**  
I will give an overview of the iterative track reconstruction used in CMS, one of the two general-purpose experiments at the LHC, with the performance obtained yesterday (Run1), recent tracking improvements for today (Run2), and some ideas (and foreseen results) for tomorrow (Phase2).

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