

Physics motivations for future machines

Thursday 14 August 2014 08:30 (35 minutes)

This talk is expected to give (i) as an introduction, the most important particle-physics questions to be addressed today, after the 2012 Scalar boson discovery, and which of these can be approached by high-energy accelerators; (ii) an unbiased overview of the specific physics programmes for the various proposed machines presented during the remainder of this session, namely: HL-LHC, ILC & CLIC, circular e+e- colliders, and HEP proton-proton colliders (the subsequent round table discussion might perhaps also refer to a future muon collider); (iii) the physics priorities; (iv) the perceived level of readiness of the different machines; (v) the potential impact of LHC-14 results; (vi) the energies & integrated luminosities needed for the various types of colliders; etc.

Presenter: GANJOUR, Serguei (CEA/IRFU,Centre d'étude de Saclay Gif-sur-Yvette (FR))

Session Classification: Future Machines