

*The 55th ICFA Advanced Beam Dynamics Workshop on
High Luminosity Circular e^+e^- Colliders – Higgs Factory (HF2014)*

took place at Hotel Wanda Realm on October 9-12, 2014, Beijing, China.

It was hosted by the Institute of High Energy Physics (IHEP), Chinese Academy of Sciences (CAS).

Since the discovery of the Higgs particle in 2012 at CERN, there have been two new initiatives for a very large future circular collider, namely, the FCC in Europe and the CEPC-SppC in China. Both would serve as a Higgs factory in the first stage.

ICFA encouraged these initiatives and issued a statement that “ICFA supports studies of energy frontier circular colliders and encouraged global coordination.” The HF2014 workshop focused on a circular e^+e^- collider for a Higgs factory.

The topics include:

- Parameters
- Optics
- Interaction region and machine-detector interface
- Synchrotron radiation and shielding
- Superconducting RF
- Injectors and injection
- Orbit stability and beam instability
- Polarization
- Instrumentation and control
- “Green” Higgs factory

The workshop website is: <http://hf2014.ihep.ac.cn>

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