

# LFC15: physics prospects for Linear and other Future Colliders after the discovery of the Higgs

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## Colloquium: The future of accelerator physics

*Thursday, 10 September 2015 14:30 (1 hour)*

With the discovery of the Higgs boson at CERN, the Standard Model has been turned into a complete theory, fully consistent with all available data. However, the Brout-Englert-Higgs mechanism opens a new window, well beyond particle physics, which has to be precisely explored at present and future accelerators. There are two ways to carry out this exploration: directly, by producing new particles, which requires very large energies, and indirectly, by measuring their effects at quantum level, which requires high precision. Unfortunately, no accelerator is able to cover both aspects. This talk is aimed at this comparison, rather than at discussing strategies, politics and techniques, but nevertheless these issues will not be ignored.

**Presenter:** RICHARD, Francois