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Current status of Higgs physics

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In 2012 a resonance at around 126 GeV was discovered at the LHC in the Higgs search channels. Since then, work has continued to verify that it is indeed the Standard Model (SM) Higgs boson which has been found, or to find deviations from the SM predictions, which would point to new physics.

In this talk I will summarize the current experimental results on the Higgs boson and discuss the state-of-the-art of its phenomenological aspects. This will then be compared with predictions from theories beyond the SM, in particular also composite scenarios. I will show how well these are already constrained by today's data and give an outlook of what to expect in the future.

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