

## Topics on lattice studies of the Higgs-Yukawa Model

*Wednesday, 7 September 2016 15:00 (1 hour)*

In this talk, I will discuss the status of modern lattice investigations for the Higgs-Yukawa model. After introducing the main strategy, I will summarise how the lattice method can provide interesting information for LHC phenomenology. More details of two aspects in this research object will be given. The first is the effects of the addition of a dimension-six operator in low-energy phenomenology. The second is the investigation of the scaling behaviour of the model, as relevant to the investigation of the triviality of the Higgs-Yukawa sector of the Standard Model.

**Presenter:** Prof. LIN, David

**Session Classification:** Flavour and Lattice