Contribution ID: 1436 Type: Parallel Talk

Theoretical progress for Higgs-boson production via vector-boson fusion

Friday, 8 July 2022 17:30 (30 minutes)

It has been 10 years since the discovery of the Higgs Boson. A small "bump" around 125 GeV mass spectrum has now evolved into precision measurements of the properties of Higgs Boson. As the second largest Higgs production channel at the LHC, vector boson fusion to Higgs has been studied intensively by both experiment and theory communities. In this talk, I will give a brief overview of the established measurements of Higgs Bosons produced via vector boson fusion. Then I will dive into the differential signatures of the process and introduce the state-of-the-art precisions achieved from theory predictions. An outlook about what to expect for future progress in precision phenomenology will be at the end of the talk.

In-person participation

Yes

Primary author: CHEN, Xuan (KIT)

Presenter: CHEN, Xuan (KIT)

Session Classification: Higgs Physics

Track Classification: Higgs Physics