Particle Physics at LPTHE

Vendredi 29 Novembre 2019, 14 :00
LPTHE, library
Domaines : hep-ph

Titre : *Precise predictions for di-Higgs gluon-fusion production at N3LO QCD*

Orateur : **Hua-Sheng Shao (LPTHE)**

Résumé : *Probing Higgs trilinear self coupling via the Higgs pair gluon fusion production at hadron colliders is crucial to understand the Higgs potential and the electroweak symmetry breaking mechanism. In this talk, I will present the next-to-next-to-next-to-leading order (N3LO) predictions for the cross sections in the infinite top quark mass limit. The phenomenological implications after taking into account the top-quark mass effects will also be discussed.*