Contribution ID: **359** Type: **Oral**

Double Higgs boson production in the high- and low-energy limits

Wednesday, 13 March 2019 15:50 (20 minutes)

In this talk, we consider some of the computational aspects encountered in recent computations of double Higgs boson production in gluon fusion. We consider the NLO virtual amplitude in the high-energy limit, and the NNLO virtual amplitude in the low-energy (or large top quark mass) limit. We discuss various optimizations which were necessary to produce our results.

Authors: DAVIES, Joshua (Karlsruhe Institute of Technology); STEINHAUSER, Matthias (KIT); Dr MISHIMA, Go (Karlsruhe Institute of Technology); Mr WELLMANN, David (Karlsruhe Institute of Technology)

Presenter: DAVIES, Joshua (Karlsruhe Institute of Technology)

Session Classification: Track 3: Computations in Theoretical Physics: Techniques and Methods

Track Classification: Track 3: Computations in Theoretical Physics: Techniques and Methods