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Finite mass effects in Higgs and double Higgs production

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Higgs boson and double Higgs boson productions suffer from large higher order corrections. This is true also when they are accompanied by further jets. The most precise results rely on computations in an effective theory where the heavy quark loops, mediating the coupling between the Higgs boson and the gluons, are integrated out. As the LHC is delivering more and more precise data, it is important to understand in detail the validity range of such effective theory predictions, in particular in view of boosted analyses. In this talk I will present detailed comparisons between effective theory results and predictions obtained in the full theory.

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