

PAUL SCHERRER INSTITUT



Particle Theory Seminar

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“NLO electroweak corrections to SM Higgs production and decay”

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Abstract:

The production of the Higgs boson via gluon fusion and its decay to two photons are key processes for the LHC and the planned linear collider. In this seminar I will describe the evaluation of the electroweak corrections at next-to-leading order in the Standard Model, comparing results obtained through different schemes for dealing with unstable particles and showing the numerical relevance for collider physics.