PAUL SCHERRER INSTITUT

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Particle Theory Seminar

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"NLO Computations with GoSam: from LHC to muon decay"

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Abstract:

In order to fully exploit and understand the several precise measurements carried out in modern particle physics experiments, accurate theoretical predictions are mandatory. The inclusion of higher order corrections to the leading order predictions is therefore of primary importance. Recently several tools were developed to automatically compute next-to-leading corrections, allowing to produce accurate predictions for multileg final states. GoSam is one if these tools. After a brief presentation of the GoSam framework, the talk will focus on some recent applications, which range from Higgs physics at the LHC to muon-decay processes.