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Precision Calculations for the LHC

Thursday 21 August 2025 10:00 (25 minutes)

I will review the state-of-the-art high-precision theoretical predictions, which are mandatory components in interpreting the increasingly accurate LHC datasets. I will discuss recent developments in the aspects of higher-order calculations, mainly focusing on the scattering amplitude computation. I will showcase some of the recent high-precision phenomenological studies involving $2\rightarrow 3$ scattering process at the LHC.

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