

PAUL SCHERRER INSTITUT



# Particle Theory Seminar

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“SUSY QCD corrections to electroweak gauge boson  
production with an associated jet”

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**Abstract:**

Electroweak gauge boson production continues to be an important process at hadron colliders. It is considered to be a standard candle at the LHC. Given its importance, it is critical to understand how beyond the standard model physics may influence these processes via quantum corrections. In the framework of the MSSM, we investigate the supersymmetric QCD corrections to electroweak gauge boson production with an associated jet at the LHC. In this talk, I will discuss the calculation and present numerical results of the integrated cross section and kinematic distributions at NLO in sQCD.