

PAUL SCHERRER INSTITUT



Particle Theory Seminar

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“Precision Physics with Electroweak Gauge Bosons”

Thursday, December 3, 2009, 11:30

WBGB/021

Abstract:

The production of W and Z bosons is one of the best understood and most precisely studied processes, enabling powerful tests of Standard Model predictions. However, in view of the increased experimental precision at the Tevatron and the LHC, the available calculations and tools that provide predictions for W and Z boson observables may not be sufficient. I will give an overview of the theory status and recent developments with special emphasis on the treatment of higher-order corrections.