Contribution ID: **31** Type: **Parallel Talk**

Radiative corrections to Drell-Yan like processes in SANC

Tuesday, 4 November 2008 17:00 (25 minutes)

Radiative corrections to processes of single Z and W boson production are obtained within the SANC computer system. Interplay of one-loop QCD and electroweak corrections is studied. Higher order QED final state radiation is taken into account. Monte Carlo event generators at the hadronic level are constructed. Matching with general purpose programs like HERWIG and PYTHIA is performed to include the effect of partonic showers. Numerical results for LHC conditions are demonstrated. The resulting theoretical uncertainty in the description of these processes is discussed.

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Session Classification: Methodology of Computations in Theoretical Physics - Session 2

Track Classification: 3. Computation in Theoretical Physics