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New developments in the MCSANC tool.

Tuesday 28 July 2015 15:00 (30 minutes)

The report presents new features of the MCSANC program, a Monte
Carlo tool for calculation of the next-to-leading order electroweak and QCD
corrections to various Standard Model processes.
The extensions concern implementation of the Drell-Yan-like
processes and include systematic treatment of the photon-induced contribution in
proton-proton collisions and electroweak corrections beyond NLO approximation.
There are also technical improvements such as calculation of the
forward-backward asymmetry for neutral-current Drell-Yan process. The updated
code is suitable for studies of the effects due to QED, electroweak and QCD
radiative corrections to Drell-Yan (and several other) processes at the LHC.

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