



Contribution ID: 33

Type: **Parallel Talk**

Standard SANC Modules

Monday, 3 November 2008 16:35 (25 minutes)

Two types of SANC system output are presented.

At first the status of stand-alone packages for calculations of the EW and QCD NLO RC at the parton level (Standard SANC FORM and/or FORTRAN Modules)

are done. Short overview of these packages in sector of the Neutral Current:

(uu, dd) -> (mu,mu, ee) and ee(uu, dd) -> HZ;

and in the sector of the Charge Current:

ee(uu, dd) -> (mu nu_mu, e nu_e) are described.

In addition second type of SANC output – MC event generator for production of event distributions at the hadronic level, based on the FOAM algorithm, are demonstrated.

Primary authors: Prof. BARDIN, Dmitry (Joint Institute for Nuclear Research (JINR)); Dr CHISTOVA, Pena (Joint Institute for Nuclear Research (JINR)); Dr BONDARENKO, Serge (Joint Institute for Nuclear Research (JINR)); KOLESNIKOV, Vladimir (Joint Institute for Nuclear Research (JINR))

Co-authors: Dr ARBUZOV, Andrey (Joint Institute for Nuclear Research (JINR)); ANDONOV, Anton (Shoumen State university, Bulgaria); Dr KALINOVSKAJA, Lidija (Joint Institute for Nuclear Research (JINR)); SADYKOV, Renat (Joint Institute for Nuclear Research (JINR))

Presenter: KOLESNIKOV, Vladimir (Joint Institute for Nuclear Research (JINR))

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

Track Classification: 3. Computation in Theoretical Physics