The 2025 International Workshop on the High Energy Circular Electron Positron Collider

Contribution ID: 8 Type: Talk

New developments in the ReneSANCe event generator

Saturday, 8 November 2025 16:00 (24 minutes)

We give a report on new developments in the ReneSANCe Monte Carlo event generator and its application to the processes used for luminosity monitoring such as small/large angle Bhabha scattering e+e--> e+e-, e+e--> gamma gamma and e+e--> mu+mu-. One-loop EW and higher order corrections, beam energy spread, polarization, and a number of background processes are taken into account.

Primary authors: Dr SADYKOV, Renat (Joint Institute for Nuclear Research); Dr ARBUZOV, Andrej (Joint Institute for Nuclear Research); Dr BONDARENKO, Serge (Joint Institute for Nuclear Research); Dr DYDYSHKA, Yahor (Joint Institute for Nuclear Research); Dr KALINOVSKAYA, Lidia (Joint Institute for Nuclear Research); Mr KAMPF, Aleksei (Joint Institute for Nuclear Research); Dr YERMOLCHYK, Vitaly (Joint Institute for Nuclear Research)

Presenter: Dr SADYKOV, Renat (Joint Institute for Nuclear Research)

Session Classification: EW & tt

Track Classification: Physics: 07: EW & tt