Contribution ID: **539** Contribution code: **contribution ID 539**   Type: **Poster**

ReneSANCe event generator for precision eˆ+eˆ- physics

We present a new version of the Monte Carlo event generator ReneSANCe. The generator takes into account complete one-loop electroweak (EW) corrections, QED corrections in leading log approximation (LLA) and some higher order QED and EW corrections to processes at eˆ+eˆ- colliders with finite particle masses and arbitrary polarizations of intitial particles. ReneSANCe effectively operates in the full phase space and at a wide range of center-of-mass energies. We give an estimate of theoretical uncertainty for series of processes to be studied at FCC-ee and CEPC.

Authors: Dr ARBUZOV, Andrey (Joint Institute for Nuclear Research (RU)); Dr BONDARENKO, Serge (Joint Institute for Nuclear Research (RU)); Mr DYDYSHKA, Yahor (Byelorussian State University (BY)); Dr KALI-NOVSKAYA, Lidia (Joint Institute for Nuclear Research (RU)); Dr RUMYANTSEV, Leonid (Joint Institute for Nuclear Research); Dr SADYKOV, Renat (Joint Institute for Nuclear Research (RU)); Mr YERMOLCHYK, Vitaly (Byelorussian State University (BY))

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

Session Classification: Posters: Apple

Track Classification: Track 3: Computations in Theoretical Physics: Techniques and Methods