



Contribution ID: 145

Type: **Oral presentation (in person)**

## New developments in the Whizard event generator

*Wednesday 10 July 2024 14:30 (20 minutes)*

We give a status report on new developments within the WHIZARD event generator. Important new features comprise NLO electroweak automation (incl. extension to BSM processes like SMEFT), loop-induced processes and new developments in the UFO interface. We highlight work in progress and further plans, such as the implementation of electroweak PDFs, photon radiation, the exclusive top threshold and features for exotic new physics searches.

### Apply for poster award

**Primary authors:** REUTER, Jürgen (DESY Hamburg, Germany); BREDT, Pia (DESY Hamburg); Dr HÖFER, Marius (KIT); KILIAN, Wolfgang (University of Siegen); Mr KREHER, Nils (University of Siegen); Dr LÖSCHNER, Maximilian (DESY); MEKALA, Krzysztof; OHL, thorsten; Mr STRIEGL, Tobias (University of Siegen); ZARNECKI, Aleksander Filip (University of Warsaw)

**Presenter:** REUTER, Jürgen (DESY Hamburg, Germany)

**Session Classification:** Top, QCD, Flavor, Precision Modelling

**Track Classification:** Physics and Detector: Top quark, QCD, Flavour, Precision Modelling