



Contribution ID: 23

Type: **Talk**

Contur: A tool for reinterpreting particle-level measurements

Thursday 16 May 2024 09:00 (20 minutes)

Contur (Constraints On New Theories Using Rivet) is a public python package sitting on top of Rivet and Yoda, which allows information on new BSM models to be extracted from particle-level differential cross section measurements from the LHC. BSM events simulated by a general-purpose MC event generator are “signal injected” into the fiducial phase space of hundreds of measurements simultaneously, allowing a rapid scan of a wide range of model parameters and signatures. Contur takes as input the Yoda histograms from Rivet, and so can interoperate with any generator producing HepMC events. However, it also has convenience methods for parameter scanning using Herwig, and is interfaced to the scanning machinery of Madgraph and GAMBIT.

Requested talk length

Author: BUTTERWORTH, Jonathan (UCL)

Presenter: BUTTERWORTH, Jonathan (UCL)

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