Contribution ID: **199**   Type: **Talk**

GAMBIT - A general-purpose Beyond-the-Standard-Model global fitting tool

Monday 4 July 2016 15:20 (20 minutes)

In this talk I will present an overview of GAMBIT, a soon-to-be released next-generation open-source global fitting tool, along with preliminary MSSM fit results. The GAMBIT project aims to fill a need in the phenomenology community for a robust and extensible tool for interfacing the physics calculators, advanced statistical sampling algorithms, and likelihood calculations that are necessary for performing statistically valid global parameter fits and model comparisons in Beyond-the-Standard-Model theories. The first public release of GAMBIT will be focused on SUSY and Higgs portal models, and will ship with a comprehensive set of likelihood calculations (experimental constraints) including a variety that are usually not included in SUSY global fits such as indirect dark matter searches (IceCube, FermiLAT) and on-the-fly LHC event simulation.

Author: Dr FARMER, Benjamin (Oskar Klein Centre)

Presenter: Dr FARMER, Benjamin (Oskar Klein Centre)

Session Classification: Precision Calculations and Simulations

Track Classification: Precision Calculations and Simulations