Contribution ID: **62**   Type: **Contributed talk**

First physics results with GAMBIT

Thursday, 4 January 2018 17:30 (15 minutes)

I will present the first Beyond the Standard Model (BSM) global fit results obtained using the new Global And Modular BSM Inference Tool (GAMBIT). With GAMBIT we have analysed the GUT-motivated supersymmetry models CMSSM, NUHM1 and NUHM2; the weak-scale MSSM7; and a scalar singlet dark matter model. Our analyses improve on existing results in terms of the number of included observables and the level of detail in the treatment of these, in the employed scanning techniques and the treatment of nuisance parameters.

Summary

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Session Classification: Thursday PM

Track Classification: Particle physics - theory