Contribution ID: **252** Type: **Theory poster**

Observation of constrained MSSM with the aid of advanced statistical technique.

Thursday 28 May 2020 18:45 (1 hour)

The discovery of a 125 GeV Higgs-boson at the Large Hadron Collider poses a significant challenge for the minimal supersymmetric standard model (MSSM). We present our phenomenological research on various Higgs allied processes in the light of the pre-existing data from several other experiments including the data on electroweak precision observables, B-physics and the data from dark matter searches to investigate finely tuned CMSSM using Bayesian inference technique which is also compared with other advanced statistical techniques to restrict the SUSY parameter space.

Author: Ms GUPTA, SURABHI (Aligarh Muslim University)

Co-author: Prof. GUPTA, SUDHIR KUMAR (ALIGARH MUSLIM UNIVERSITY)

Presenter: Ms GUPTA, SURABHI (Aligarh Muslim University)

Session Classification: Poster Session (I)

Track Classification: Higgs physics