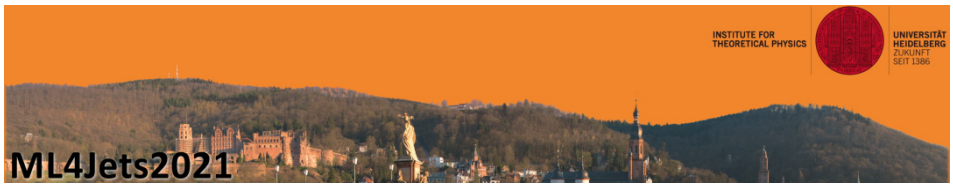

Contribution ID: **100** Type: **not specified**

Bayesian Inference in for Four Tops at the LHC

Thursday, July 8, 2021 5:00 PM (20 minutes)

Four-tops (and its backgrounds) is very hard to model at the LHC, it represents a unique window for detecting top-philic NP, and its current measurements have some tension with theory and predictions. We find that simple, clean and powerful Bayesian Inference can be applied on the data to infer signal and background true distributions. We propose that these results could be used in a novel way to test for SM agreement and/or NP effects in four-top final state at the LHC.

Academic Rank

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Session Classification: Interpretability, Robustness, and Uncertainties