ColliderBit-Solo: a new tool for reinterpreting LHC results for BSM

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ColliderBit is a GAMBIT module for the calculation of high energy collider observables in theories of physics beyond the Standard Model. ColliderBit features a unique parallelised Monte Carlo event generation scheme suitable for large-scale supercomputer applications, and a number of LHC analyses, covering a reasonable range of the BSM signatures currently sought by ATLAS and CMS. To use it as a standalone tool for efficiently applying collider constraints to theories of new physics, we develop a new code, ColliderBit-Solo, which accepts simulated event files for any model. In this talk, we will present features and usage of ColliderBit-Solo, as well as comparisons with CheckMATE and MadAnalysis.

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