Contribution ID: **50**   Type: **not specified**

AEACuS (Algorithmic Event Arbiter and Cut Selector) : A Universal Meta Language for Specifying Event Selection Cuts

Tuesday 6 May 2014 15:45 (15 minutes)

The AEACuS (Algorithmic Event Arbiter and Cut Selector) computer program has been developed as a lightweight consumer-level tool for implementing generic collider data selection cuts in the search for new physics. The compact and powerful meta language invented to control the operation of this program is suggested as a potential standard for the unambiguous communication of various event selection strategies, facilitating the rapid, uniform, and reproducible reinterpretation of experimental (or Monte Carlo) results in the context of a wide variety of specific models.

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Session Classification: SUSY III & Tools