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Analysis description languages for LHC BSM searches

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An analysis description language (ADL) is a human readable declarative language that unambiguously describes the contents of an analysis in a standard way, independent of any computing framework. Adopting ADLs would bring numerous benefits for the LHC experimental and phenomenological communities, in particular for beyond the standard model physics analyses, ranging from analysis preservation beyond the lifetimes of experiments or analysis software to facilitating the abstraction, design, visualization, validation, combination, reproduction, interpretation and overall communication of the analysis contents. Several attempts were made recently to develop ADLs, and tools to use them, and an effort is underway to arrive at the core of a unified ADL. This talk will introduce the ADL concept, use cases for BSM searches and interpretation, and current status of development.

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