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HS3 - The HEP Statistics Serialization Standard

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The HEP Statistics Serialization Standard (HS3) is an emerging standard providing a language-agnostic and software-independent format for saving statistical models of HEP in exchangeable files. HS3 allows publishing and sharing entire analyses in a JSON(-like) format that is both human and machine-readable. The standard aims to harmonize the use of statistical models across a range of different software frameworks, opening up new possibilities for validating results, reusing models in different contexts, and ensuring long-term readability. Efforts are currently underway to provide HS3 support for software commonly used in HEP, such as ROOT, Python, and Julia. In this talk, we give an introduction to the HS3 standard and discuss its design philosophy and semantics. We present the current status of the ongoing implementation of the HS3 interface in Julia and demonstrate first example usecases.

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