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HEP Statistics Serialization Standard

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The HEP Statistics Serialization Standard is an emerging standard to serialize statistical models in High Energy Physics as JSON (or JSON-like) files.

Publishing likelihoods has been on the bucket-list of the HEP community since 20 years. With this new standard, which is already implemented in ROOT and has gathered support by all major HEP statistics frameworks, the community will finally and for the first time have the option to publish full statistical models of LHC measurements in a software-independent format. The HS3 standard will not only allow for long-term archiving of analyses but also facilitate the combination and reinterpretation of LHC measurements.

The project is available on GitHub and overleaf and is actively developed by physicists and software engineers from different collaborations and statistical toolkits. Feedback and suggestions for improvements are highly welcome.

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