

Final Analysis Sample Metadata

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IceCube is a cubic kilometer neutrino detector located at the south pole. Data are processed and filtered in a data center at the south pole. After transfer to a data warehouse in the north, data are further refined through multiple levels of selection and reconstruction to reach analysis samples. So far, the production and curation of these analysis samples has been handled in an ad-hoc way in IceCube. New tools have been developed to capture and validate the metadata associated to these data samples in consistent and machine readable specification. Development was driven by analysis use-cases and pursuing reproducibility of scientific results.

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