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Item name	Author(s)	Location	Size	Brief description
CORSIKA production	Piotr Kalaczyński, Andrey Romanov	Magnetic tape storage (iRoDs) at the CC Lyon computer cluster (not publicly available yet)	~4PB	Mass simulation ($1.44 \cdot 10^{10}$ generated showers) of cosmic ray air shower events for the KM3NeT detectors: ARCA115, ARCA6, ORCA115, and ORCA6.
CORSIKA systematics datasets	Piotr Kalaczyński	Magnetic tape storage (iRoDs) at the CC Lyon computer cluster (not publicly available yet)	~21GB	Datasets extracted from a smaller set ($5.56 \cdot 10^{7}$ generated showers) of simulations generated to evaluate the systematic uncertainties for CORISKA simulation.
Datasets for machine learning reconstruction & analysis	Piotr Kalaczyński	Magnetic tape storage (iRoDs) at the CC Lyon computer cluster (not publicly available yet)	~59GB	Datasets containing information extracted from the main CORSIKA production. A separate dataset was produced for ARCA115, ARCA6, ORCA115, and ORCA6. They were prepared to allow reconstruction of a number of observables and subsequent comparison with the experimental data. The results were also used for the sensitivity study focused on the detection of the prompt atmospheric muon flux component by the KM3NeT detectors.

All the data listed above is a property of the KM3NeT Collaboration, and it is up to the Collaboration to decide, when, and in what form the data will be provided in open access. The currently publicly available KM3NeT datasets can be found at: https://open-data.pages.km3net.de/openscienceportal/

More details on the datasets and the results derived from them can be found in the PhD thesis:

Piotr Kalaczyński, "The Measurement and Modelling of Cosmic Ray

Muons at KM3NeT Detectors", National Centre for Nuclear Research 2023
(to be published at https://bip.ncbj.gov.pl/artykuly/89/postepowania-doktorskie)