

KASCADE_ReducedData_runs_0877-4683_HDF5

general information

Set name	KASCADE_ReducedData_runs_0877-4683_HDF5		
Data selection	NABOO		
Data format	HDF5		
Number of events	general	143,868,899	
	array	143,1116,296	
Zip-file name / size	KASCADE_ReducedData_runs_0877-4683_HDF5.zip / 6155 MB		
Data file name / size	events.h5	/ 6192 MB	
Creation date	7.5.2020		

KASCADE quantities selected

Quantity	Description	Range	Cut
E	Estimated primary energy	10^{13} - 10^{19} eV	full range
Xc	X-core position	-91 - +91 m	full range
Yc	Y-core position	-91 - +91 m	full range
Ze	Zenith angle	0° - 60°	full range
Az	Azimuth angle	0° - 360°	full range
Ne	Number of e/ γ particles	100 - 500,000,000	full range
Nmu	Number of Muons	100 - 50,000,000	full range
Age	Shower age	0.1 – 1.48	full range

general quantities selected

Quantity	Description	Range	Cut
T	Air temperature	-20 ° - +50°	full range
P	Air pressure	960 -1040 hPa	full range
Gt	Global time (sec's since 1.1.1970)	894,638,100 – 1,017,887,940	cut
Mt	Micro time	0 – 999,999,999	full range
DateTime	Date & Time	8.5.1998–20.12.2003	cut
R	Run number	877 – 4683	cut
Ev	Event number	1 – 4,100,000	full range

remark

This is the data set published up to now with the releases **VULCAN** and **MERIDIAN**. The only difference is that the data for this release have been reanalyzed using a more precise time calibration for the KASCADE array.