

## KASCADE\_ReducedData\_runs\_4685-7417\_HDF5

### *general information*

Set name	KASCADE_ReducedData_runs_4685-7417_HDF5	
Data selection	NABOO	
Data format	HDF5	
Number of events	general array	277,425,001 243,302,187
Creation date	6.5.2020	
Zip-file / size	KASCADE_ReducedData_runs_4685-7417_HDF5.zip / 11,273 MB	
Data file / size	events.h5	/ 11,346 MB

### *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/ $\gamma$ 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)	1,017,887,940 – 1,358,239,243	cut
Mt	Micro time	0 – 999,999,999	full range
DateTime	Date & Time	20.12.2003-15.1.2013	cut
R	Run number	4685 - 7417	cut
Ev	Event number	1 – 4,100,000	full range