

# KASCADE-CALOR\_ReducedData\_runs\_0877-5496\_ROOT

## *general information*

Set name	KASCADE-CALOR ReducedData _runs_0877-5496_ROOT		
Data selection	NABOO		
Data format	ROOT		
Number of events	general	2,525,527	
	array	2,502,665	
	calor	2,525,527	
Zip-file name / size	KASCADE-CALOR ReducedData _runs_0877-5496_ROOT.zip / 209 MB		
Data file names / sizes	events.root	/	223 MB
Creation date	14.5.2020		
Application	Analysing data of the CALORIMETER and the KASCADE Array		

## *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

## *CALORIMETER quantities selected*

Quantity	Description	Range	Cut
Nhad	Number of Hadrons	1 – 511	cut
Ehad	Energy sum of Nhad Hadrons	0, $10^{10} - 10^{16}$ eV	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)	894,645,350 – 1,134,213,640	cut
Mt	Micro time	0 – 999,999,999	full range
DateTime	Date & Time	8.5.1998 – 12.10.2005	cut
R	Run number	877 - 5496	cut
Ev	Event number	1 – 4,100,000	full range

Note: only Events with reconstructed Calorimeter data (Nhad>0) are included