Parameters for Inclusion In Summary Photon Database (SPD)

Parameter Name	Description	Unit, Range
Energy	: energy measurement	(GeV)
ΔE	: uncertainty in energy measurement	(GeV)
Right Ascension	: reconstructed celestial longitude	($0° \rightarrow 360°$)
Declination	: reconstructed celestial latitude	($-90° \rightarrow +90°$)
Error in localization	: uncertainty in reconstructed direction	(degrees)
Date	: Modified Julian Day number	(days)
Time	: UTC detection time	(86400.000000)
Fst_Cnv_Lyr, (or fst_X_lyr ?)	: conversion layer number, from Glastsim analysis	($0 \rightarrow 15$)
Conversion point	: reconstructed conversion point in GLAST (3-vector)	(centimeters)
Cnv_Lyr_Hits, (clusters ?)	: number of SSD hits (and clusters of hits ?)	(dimensionless)
Path thru instrument	: best reconstruction trajectory thru GLAST (6-vector)	(dircosines, centimeters)
CAL moments	: moments of inertia tensor (corrected for leakage)	($GeV \bullet cm^2$)

Parameter Name	Description	Unit, Range
Veto_Energy	: total energy detected in ACD	(MeV)
No_Vetos_Hit	: number of ACD tiles hit	(dimensionless)
Quality_Parm	: quality parameter for the fitted trajectory	(dimensionless)
Data quality	: distinct from track quality: overall status of event	(dimensionless)
Dead time	: calculated dead time for event	(seconds)
Instrument mode	: e.g. denoting {slew, diagnostic operations}	(dimensionless)
TKR, CAL-only flag	: 2-bit flag for {CAL-only, TKR-only, and both.}	(dimensionless)
⊕-zenith angle	: angle from Zenith to Earth	(0° → ~ 115°)
⊕-azimuth angle	: angle from +X S/C axis (?) to Earth equator	(0° → 360°)
S/C position	: 3-vector, from Earth center	(kilometers)
SW version	: which version of Glastsim for photon's analysis	(dimensionless)
N empty fields	: stuff not thought of yet	