Stefan Fröse

PhD Student @ TU Dortmund, Scientific Advisor @ ErUM-Data-Hub

A **Python** package for **gamma-ray** astronomy

My work:

- Searching for Dark Matter using Gamma rays
- Gammapy developer (High-Level analysis)
- Adapting HEP statistical methods to Gamma-ray astronomy (Asimov datasets, NPs, Pulls & Impacts, TITRATE)
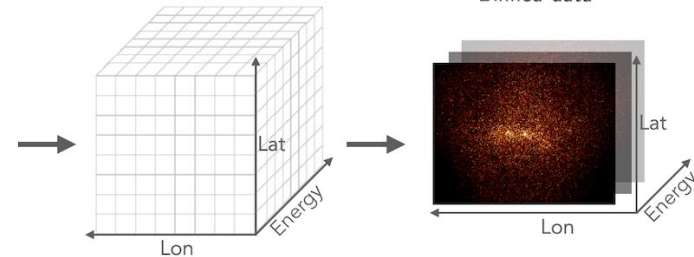- Reproducible Analysis with law

Interests:

- Fitting tools & incorporating HEP software
- Differentiable analysis, alias JAXifying Gammapy
- Scalable analysis

DL3				
γ-like events				
EVENT_ID	TIME	RA	DEC	ENERGY
	s	deg	deg	TeV
int64	float64	float32	float32	float32
5407363825684	123890826.66805482	84.97964	23.89347	10.352011
5407363825695	123890826.69749284	84.54751	21.004095	4.0246882
5407363825831	123890827.23673964	85.39696	19.41868	2.2048872
5407363825970	123890827.79615426	81.93147	20.79867	0.69548655
5407363826067	123890828.26131463	85.98302	21.053099	0.86911184
5407363826095	123890828.41393518	86.97305	21.837437	4.1240892
5407363826128	123890828.52555823	83.40073	19.771587	1.6680022
5407363826168	123890828.6829524	82.25036	19.22003	4.7649446
5407363826383	123890829.53362775	83.18322	22.008213	0.7920148
...	...	...	...	...

Observation and / or time selection

Data Reduction

Bin selection: WCS & Energy

DL4
Binned data

Skymap / "Cube"