

PolPy: A 3ML-based universal tool for X-/ γ -ray polarimetry using common data format standards

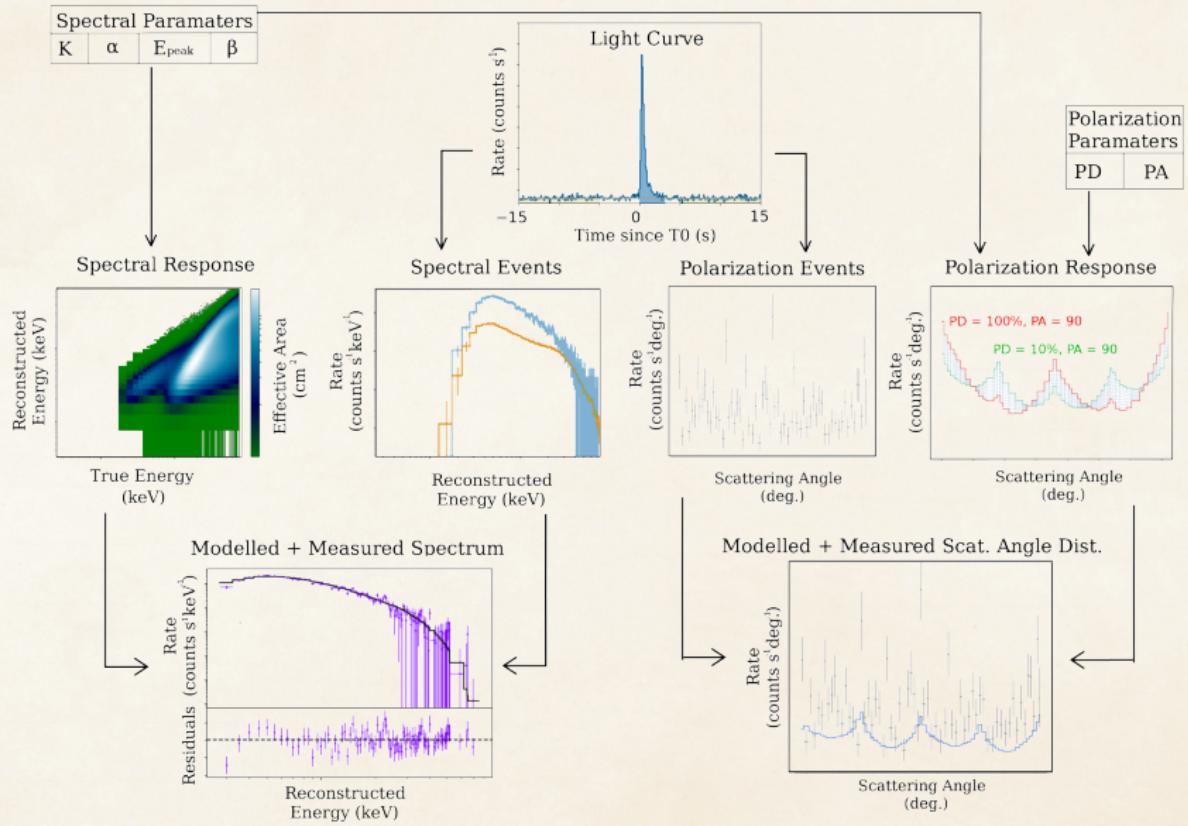
International X-ray POlarimetry Symposium

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POLAR analysis with 3ML



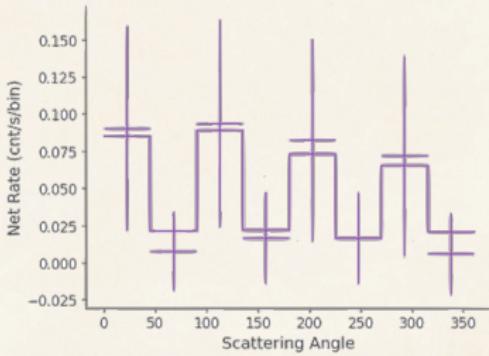
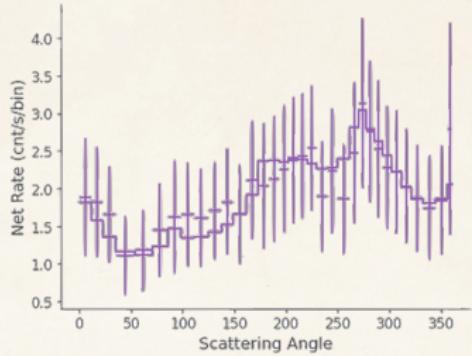
- A 3ML plugin for joint spectro-polarimetric analysis using data from several mission. PolPy **open-source code**: <https://github.com/threeML/polpy>
- We defined a **standard OGIP-like format** for polarimetry so that the plugin can be used by any polarimeter:

■ 0	Primary	Image	0	Header	Image	Table
■ 1	INEBOUNDS	Binary	2 cols X 150 rows	Header	Hist Plot	All Select
■ 2	INPAVALS	Binary	1 cols X 61 rows	Header	Hist Plot	All Select
■ 3	SABOUNDS	Binary	3 cols X 360 rows	Header	Hist Plot	All Select
■ 4	SPECRESP POLMATRIX	Image	150 X 61 X 360	Header	Image	Table
■ 5	SPECRESP UNPOLMATRIX	Image	150 X 360	Header	Image	Table



■ 0	Primary	Image	0	Header
■ 1	POLEVENTS	Binary	4 cols X 485242 rows	Header
		■ TIME	■ ENERGY	■ SA ■ DEADFRAC
Select	D	E	E	E
■ All	sec	keV	deg	
Invert	Modify	Modify	Modify	Modify
1	1.484431069501E+09	5.300000E+01	-1.000000E+00	6.890131E-02
2	1.484431069503E+09	1.641000E+02	-1.000000E+00	3.984013E-03





	PD [%]	PA [°]
POLAR catalog	13^{+28}_{-13}	68^{+36}_{-54}
Joint POLAR+CZTI	12^{+20}_{-7}	161^{+20}_{-130}

Pipeline development and analysis work are **still on-going** and should be published by the end of the year: stay tuned!