

EPIC-PN observations of ζ -Puppis

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ζ -Puppis

$m_v=2.1$ O4If supergiant

→optical loading in thin/medium filter

6-7 cts/s (s+d) thick filter (0.2-1.2 keV)

8-9 cts/s (s+d) medium filter

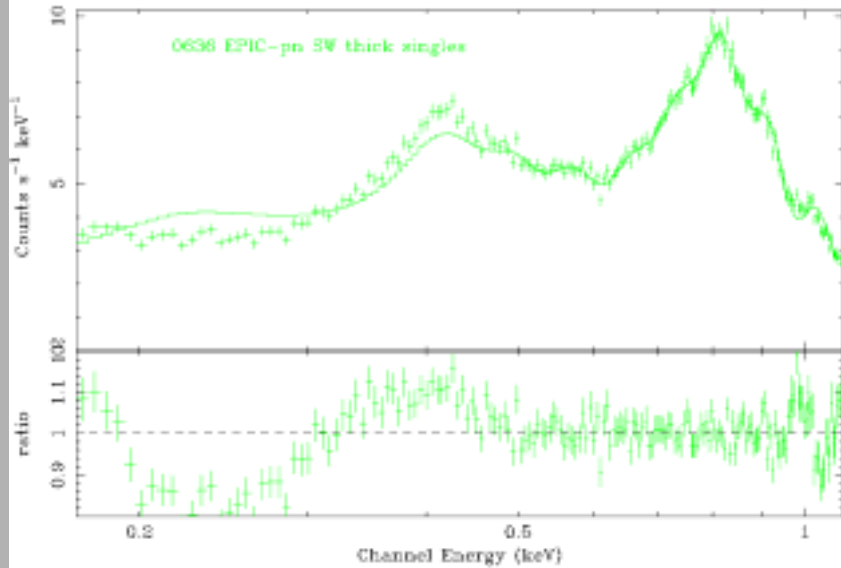
→pile-up in slow modes

EPIC-PN Observations

Rev.	readout	filter
156	LW	medium
535	LW	thick
	LW	medium
538	LW	thick
	LW	medium
542	LW	thick
	LW	medium
552	LW	thick
	LW	medium
636	SW	thick
	SW	medium
731	LW	thick
795	SW	thick
	LW	thick
903	SW	thick
	TI	thick
	FF	thick

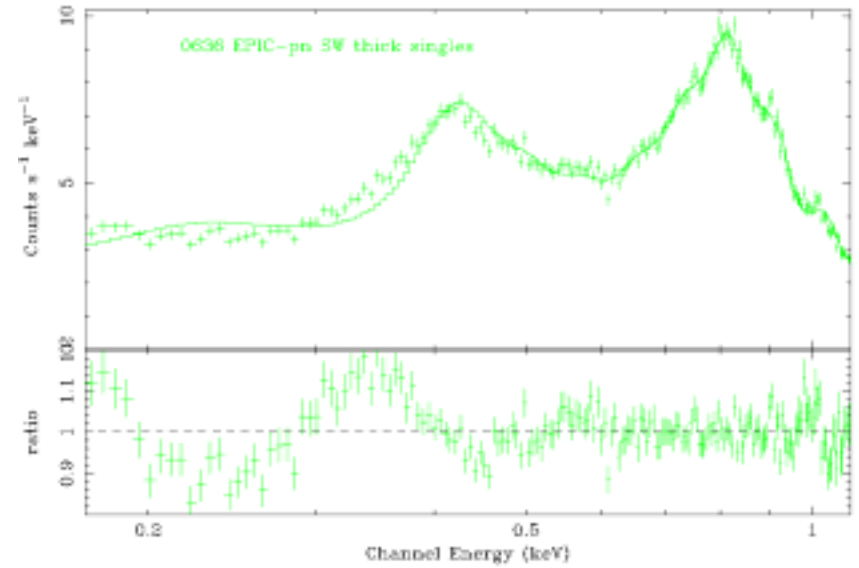
Redistribution at low energies

Zeta Puppis SAS36.0



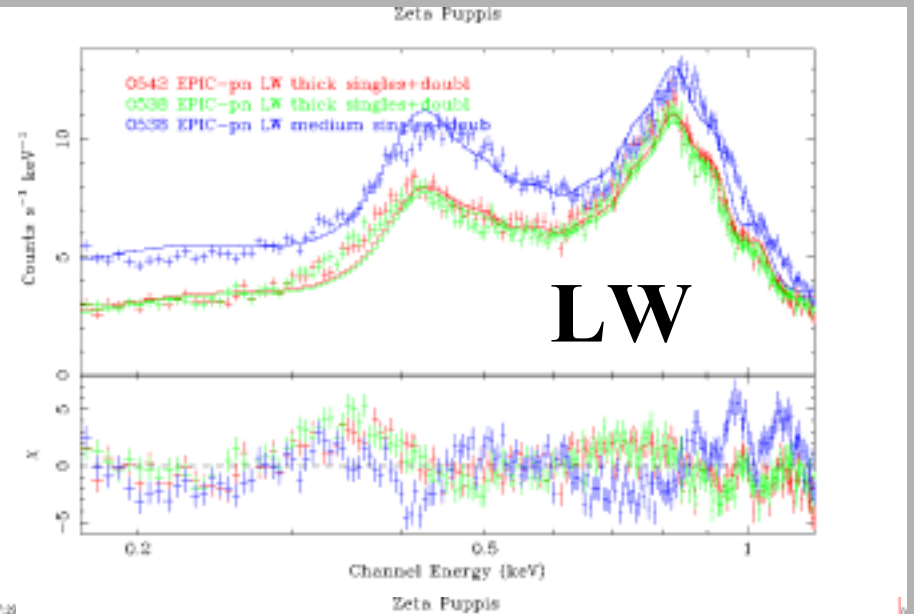
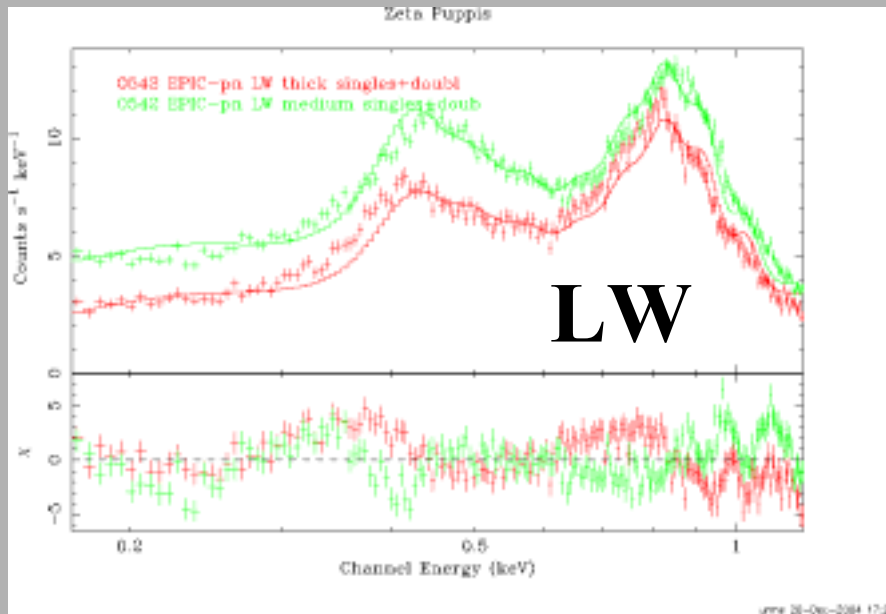
Feb 11-Apr-2005 16:11

Zeta Puppis SAS36.1



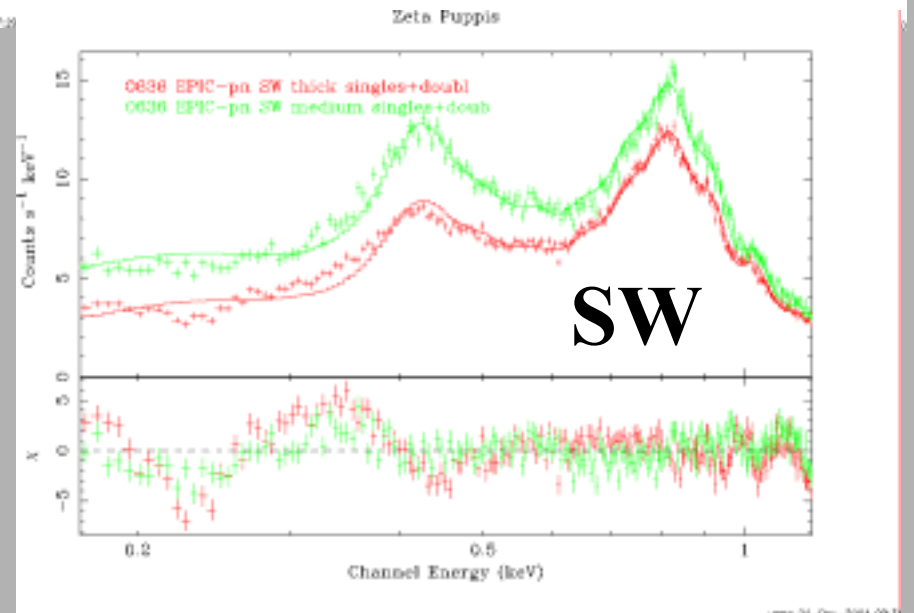
Feb 11-Apr-2005 16:14

Optical loading

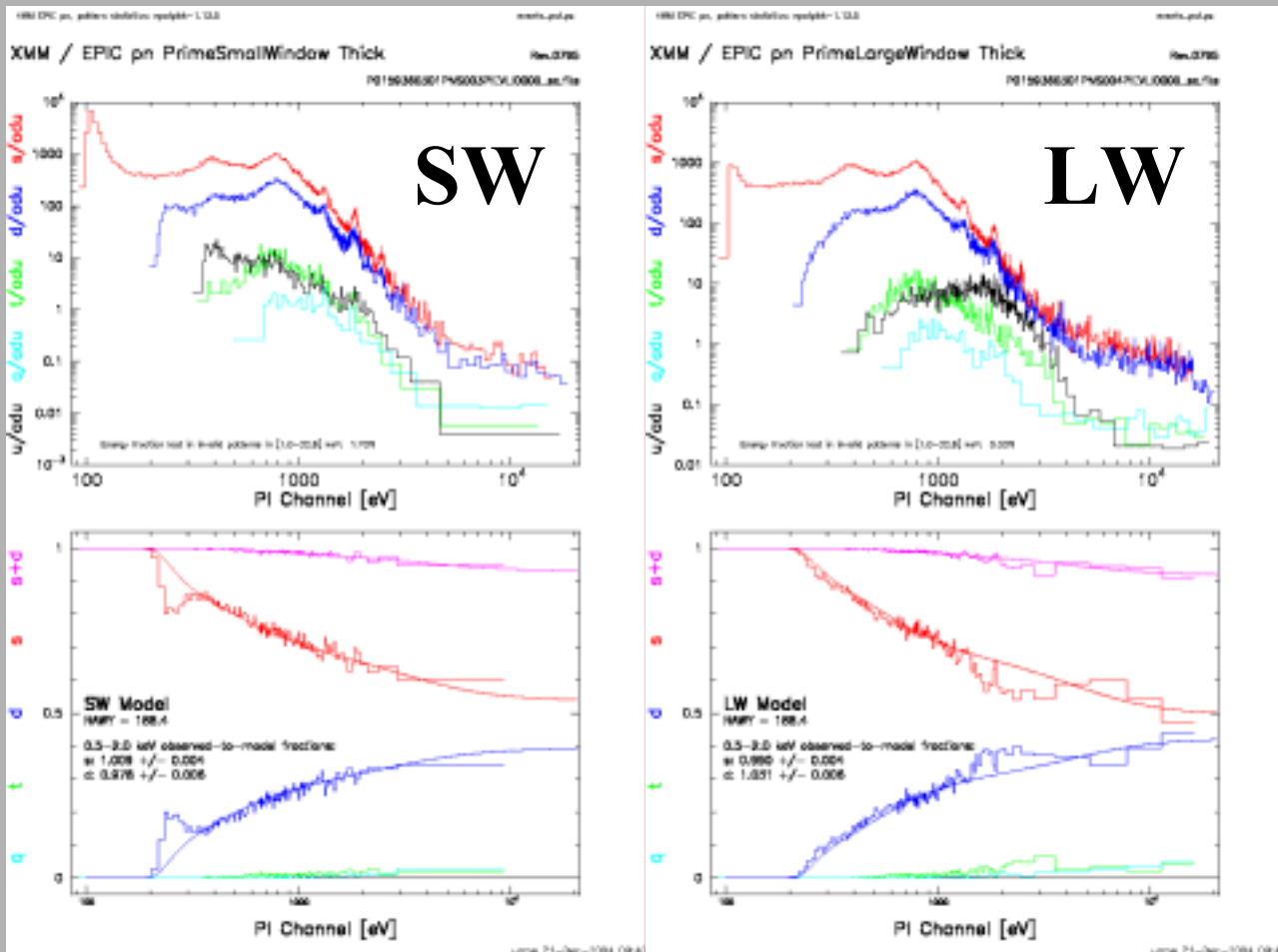


Comparison medium-thick filter

→ optical loading shifts
medium filter spectra
to higher energies



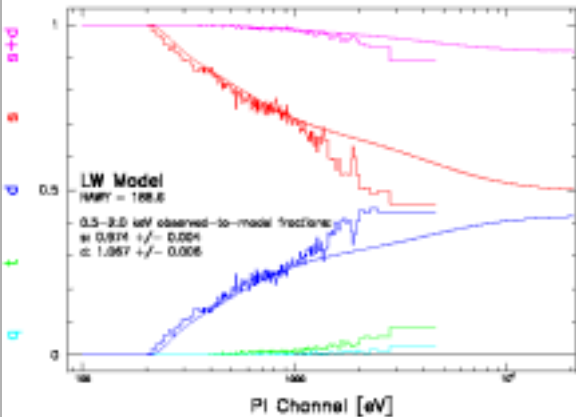
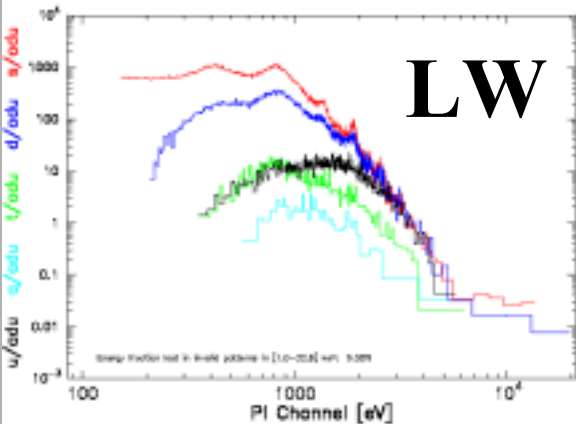
Pile-up



XMM / EPIC pn PrimeLargeWindow Medium

Rev.05.00

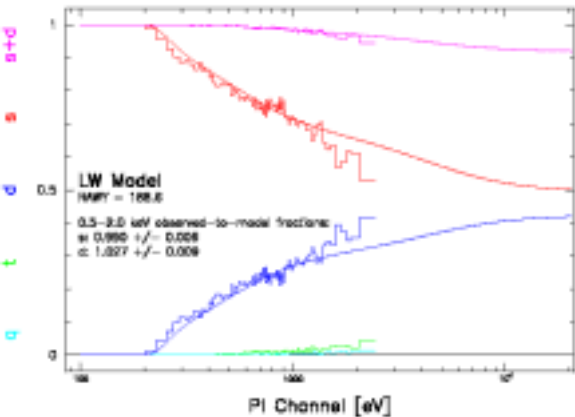
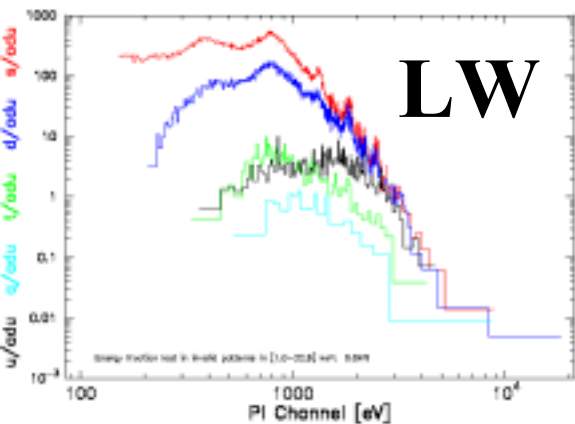
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XMM / EPIC pn PrimeLargeWindow Thick

Rev.05.00

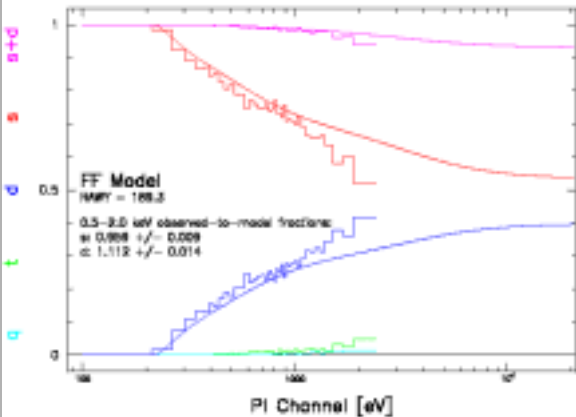
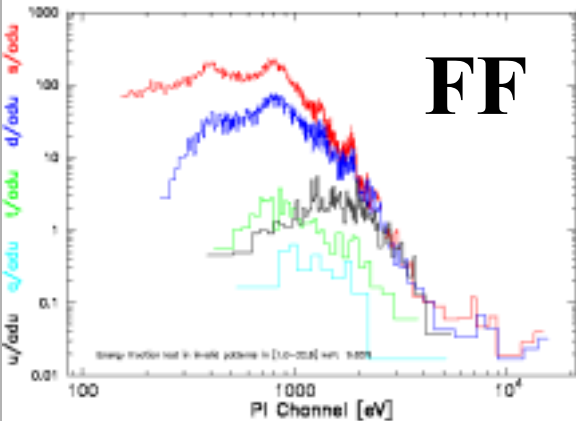
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XMM / EPIC pn PrimeFullWindow Thick

Rev.0803

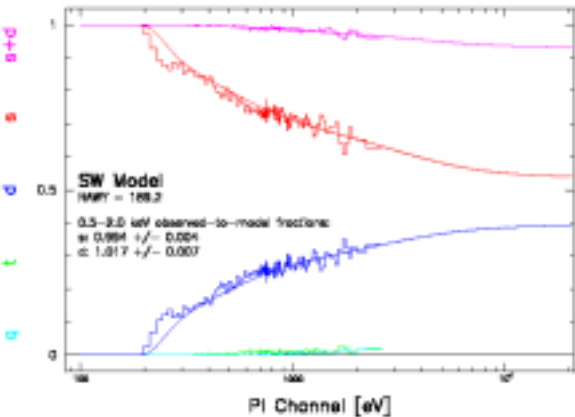
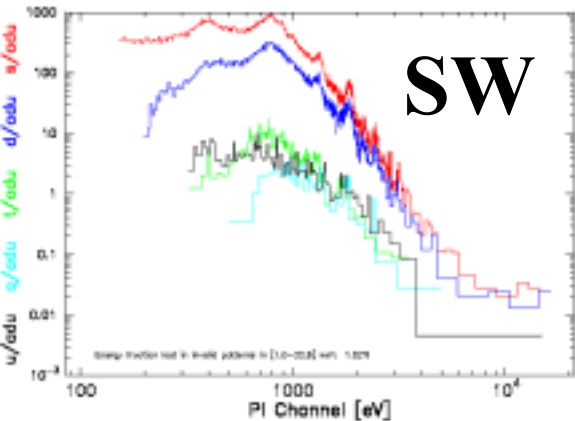
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XMM / EPIC pn PrimeSmallWindow Thick

Rev.0803

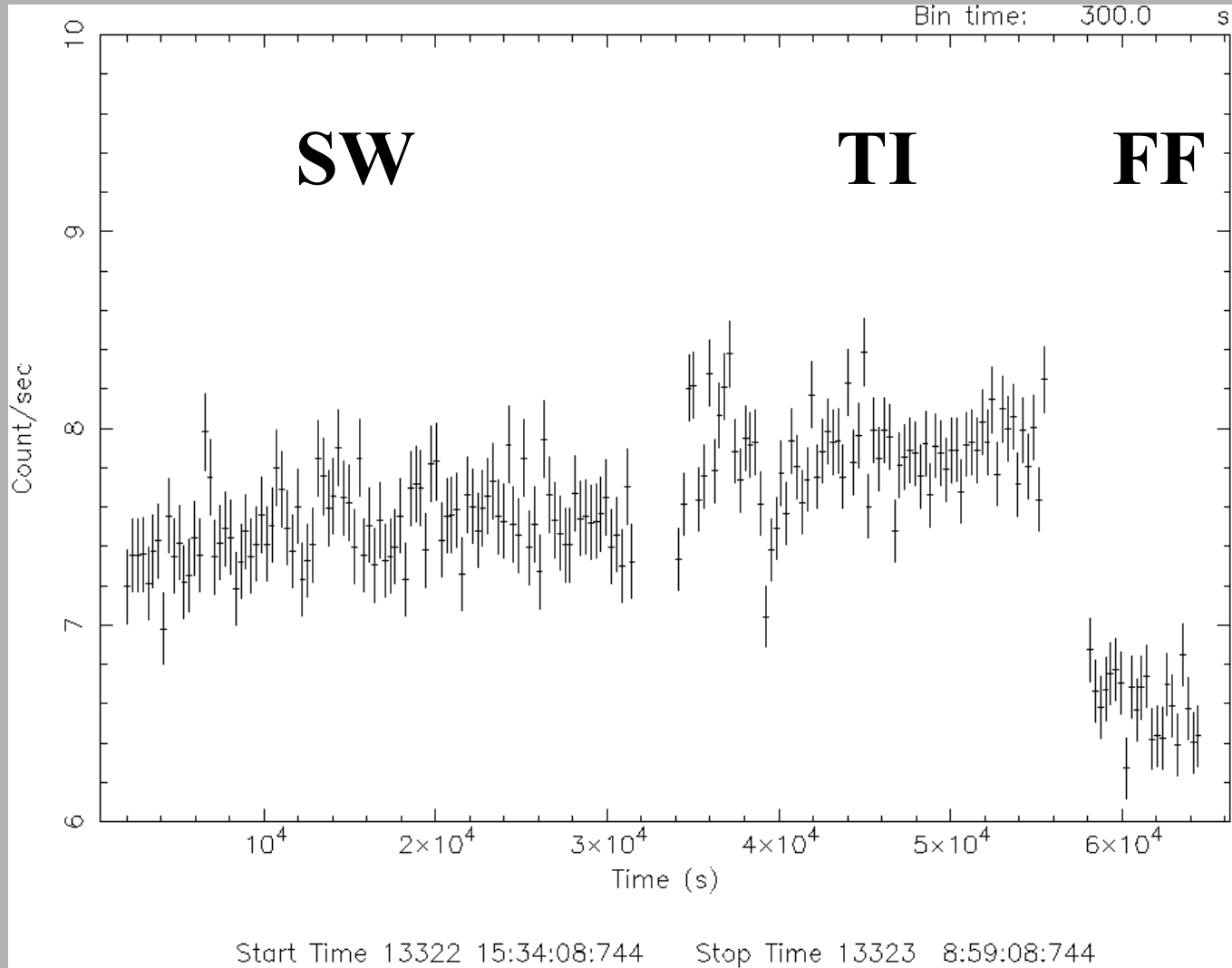
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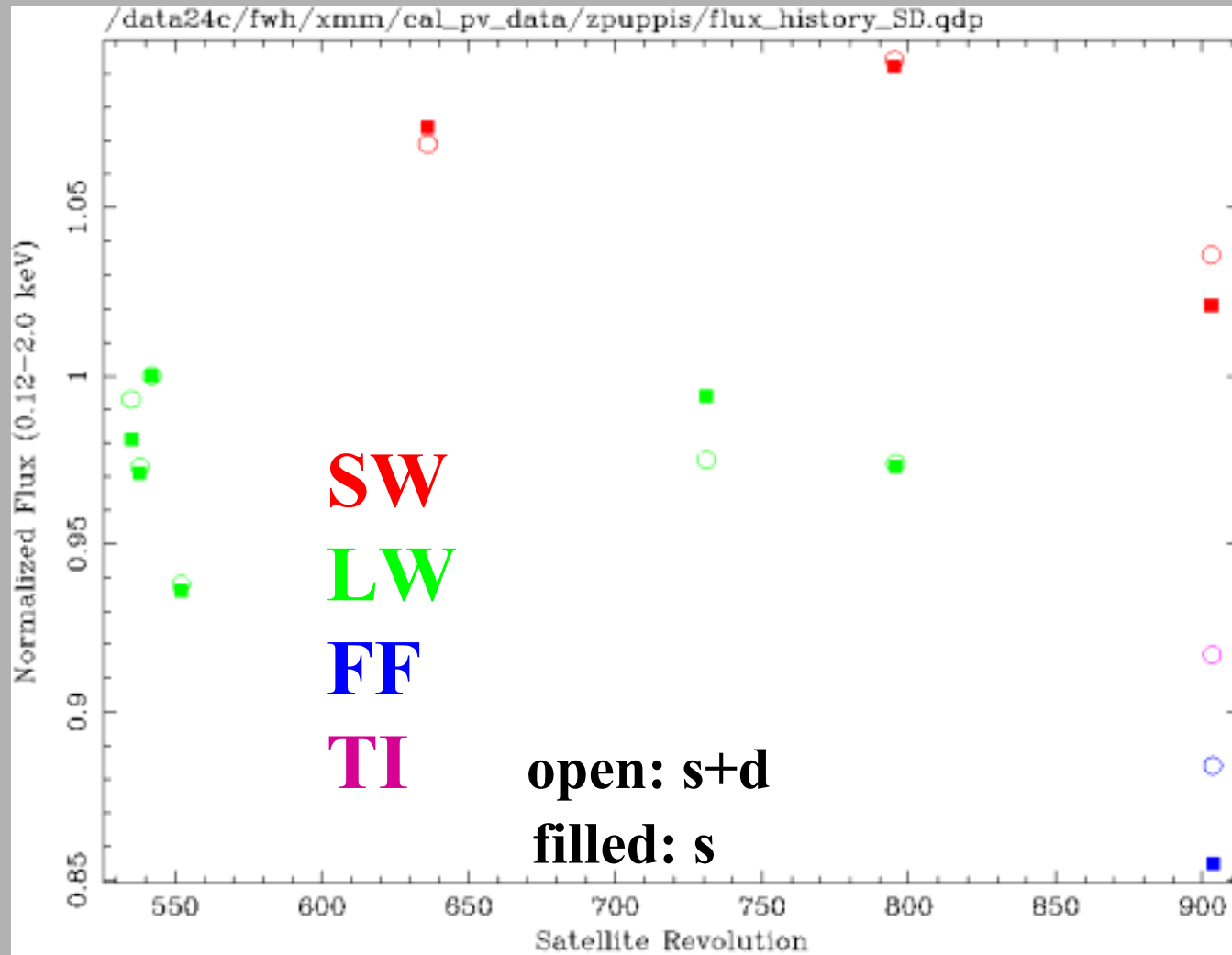
Timing mode

Rev. 903

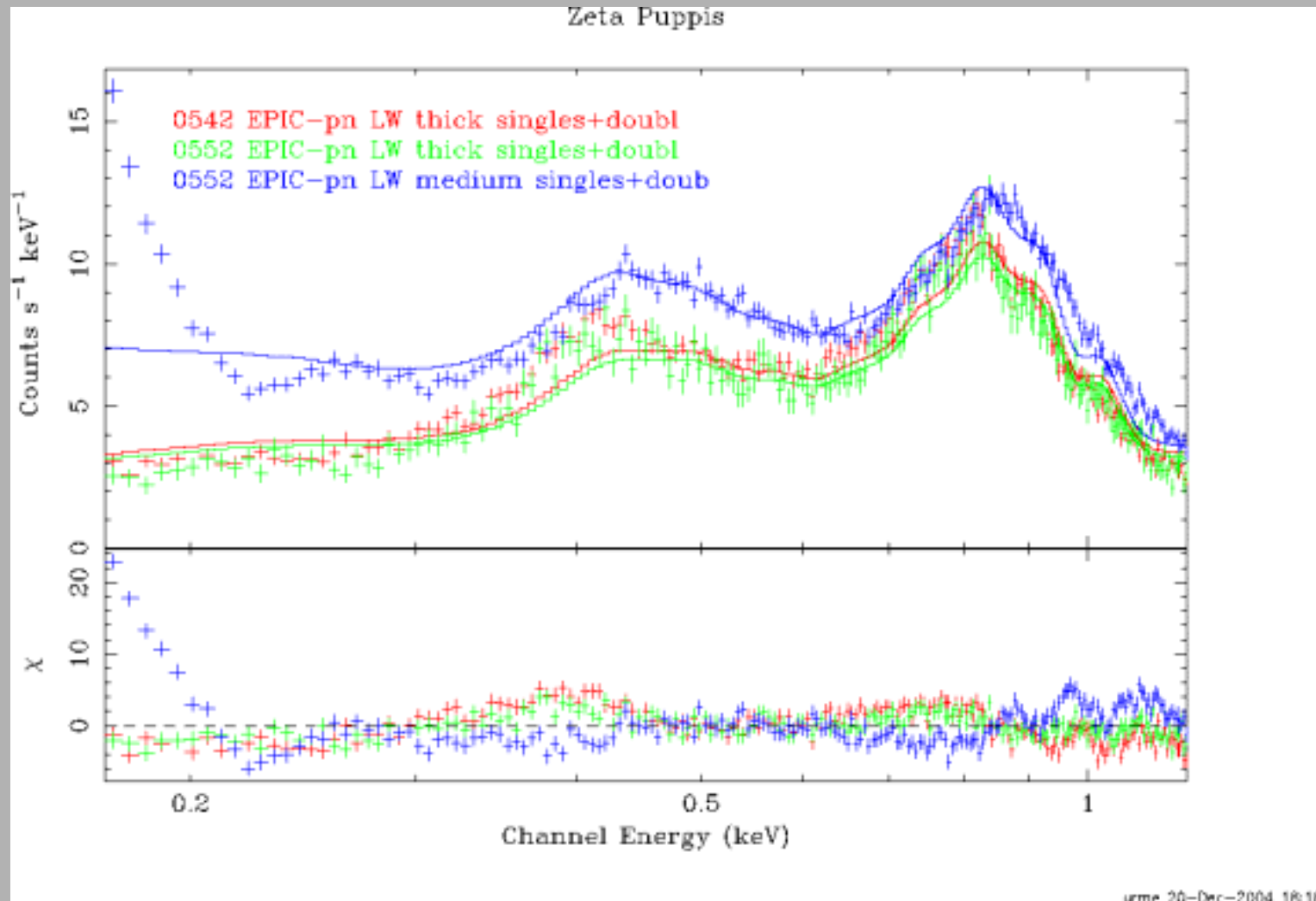
**Life time factor corrected
extraction region not corr.**



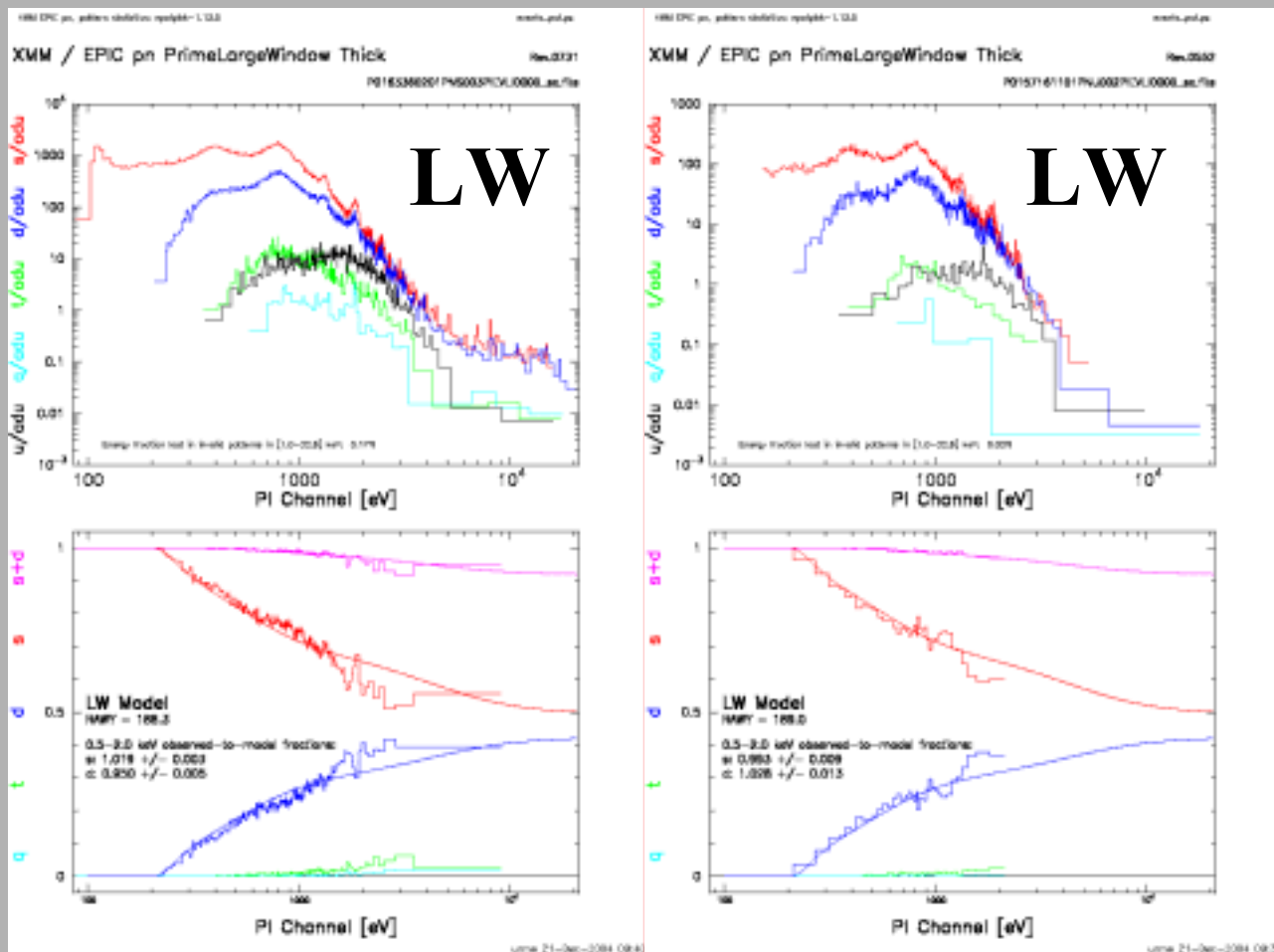
Flux history



Offset map and stable pointing



Off-axis pointing in Rev. 731



SW and thick filter

