# The EPIC-PN response matrix

## Cross calibration with MOS/RGS

-- PN/MOS: N132D

-- PN redistribution: Mkn 421, PKS0558-504, MS1229.2+6430

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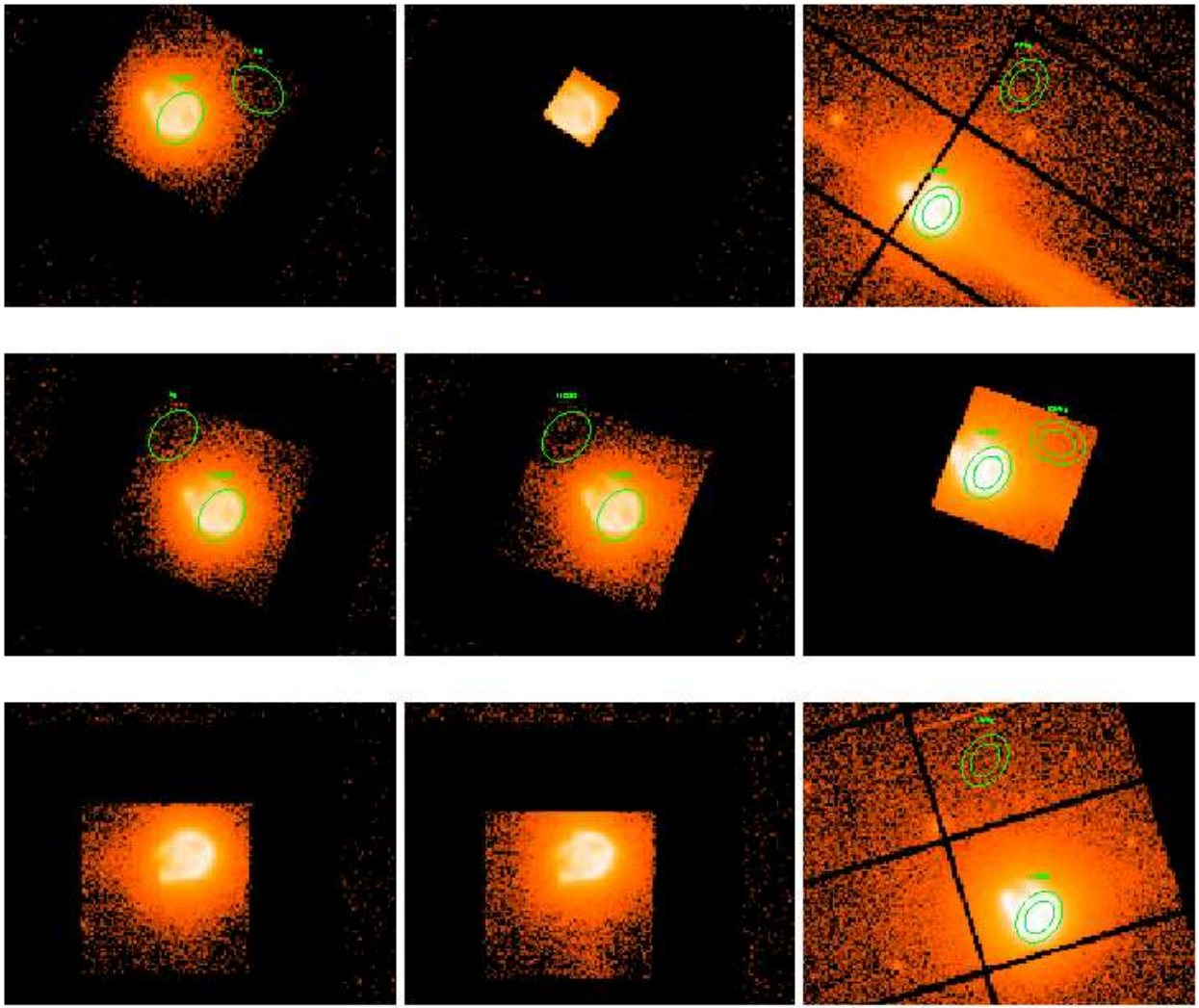
EPIC Cal meeting, Milano, 6.-8. November 2001

# SNR N132D -- EPIC observations

MOS1 MOS2 PN

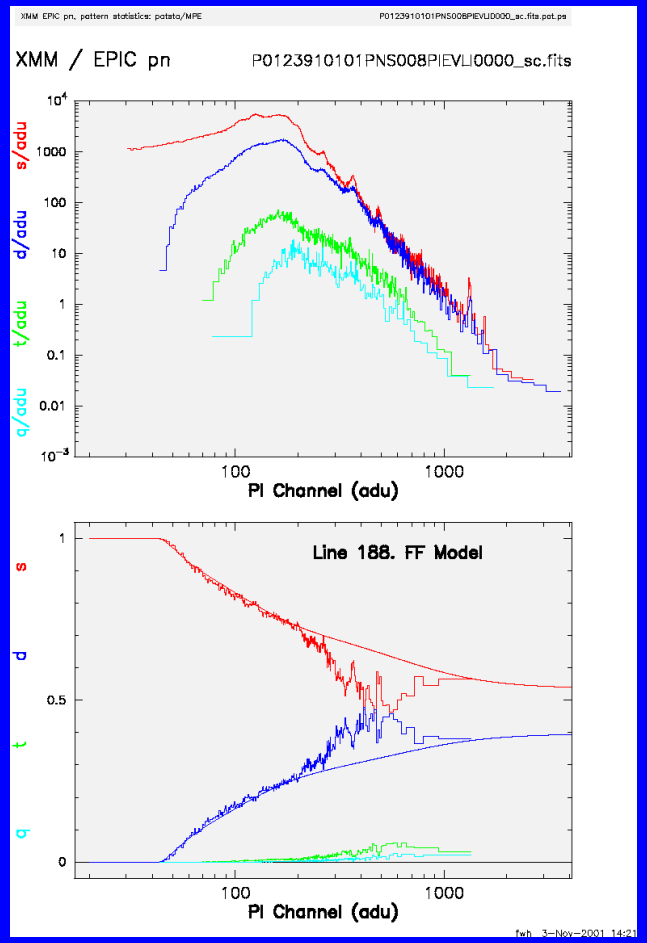


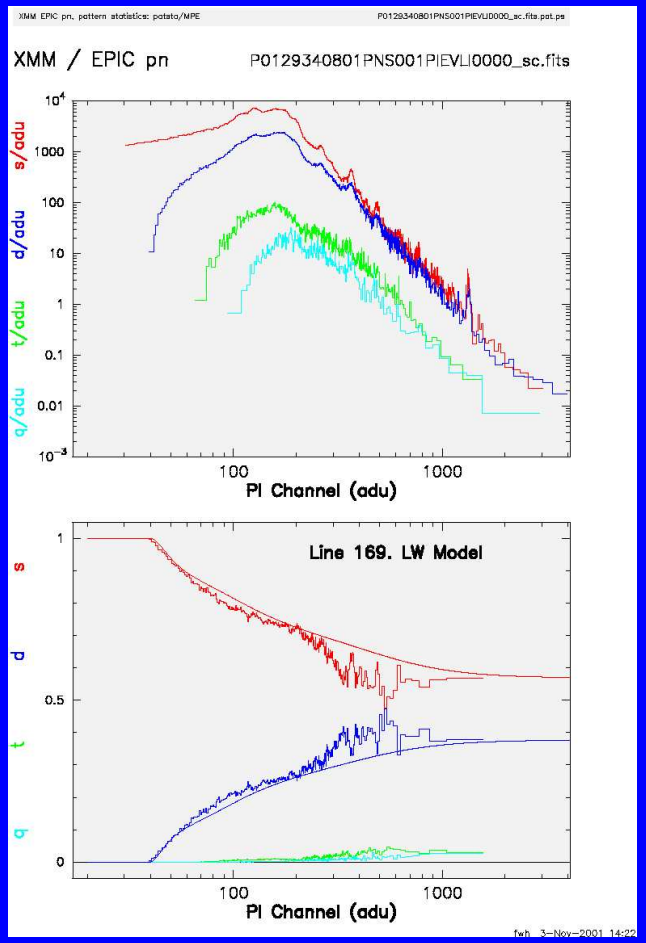
0076
0123910101M1S009 LW med
0123910101M2S010 SW med
0123910101PNS008 FF med

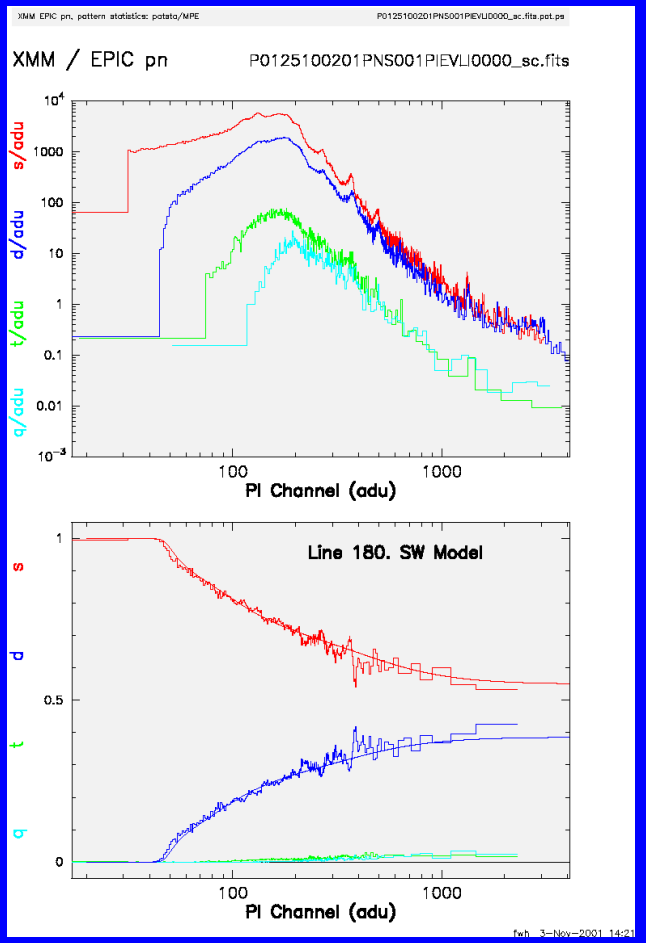
0083
0125100201M1U009 LW med
0125100201M2U009 LW med
0125100201PNS001 SW med

0283
0129340801M1S002 LW thin
0129340801M2S003 LW thin
0129340801PNS001 LW med

# SNR N132D -- EPIC PN pattern statistics

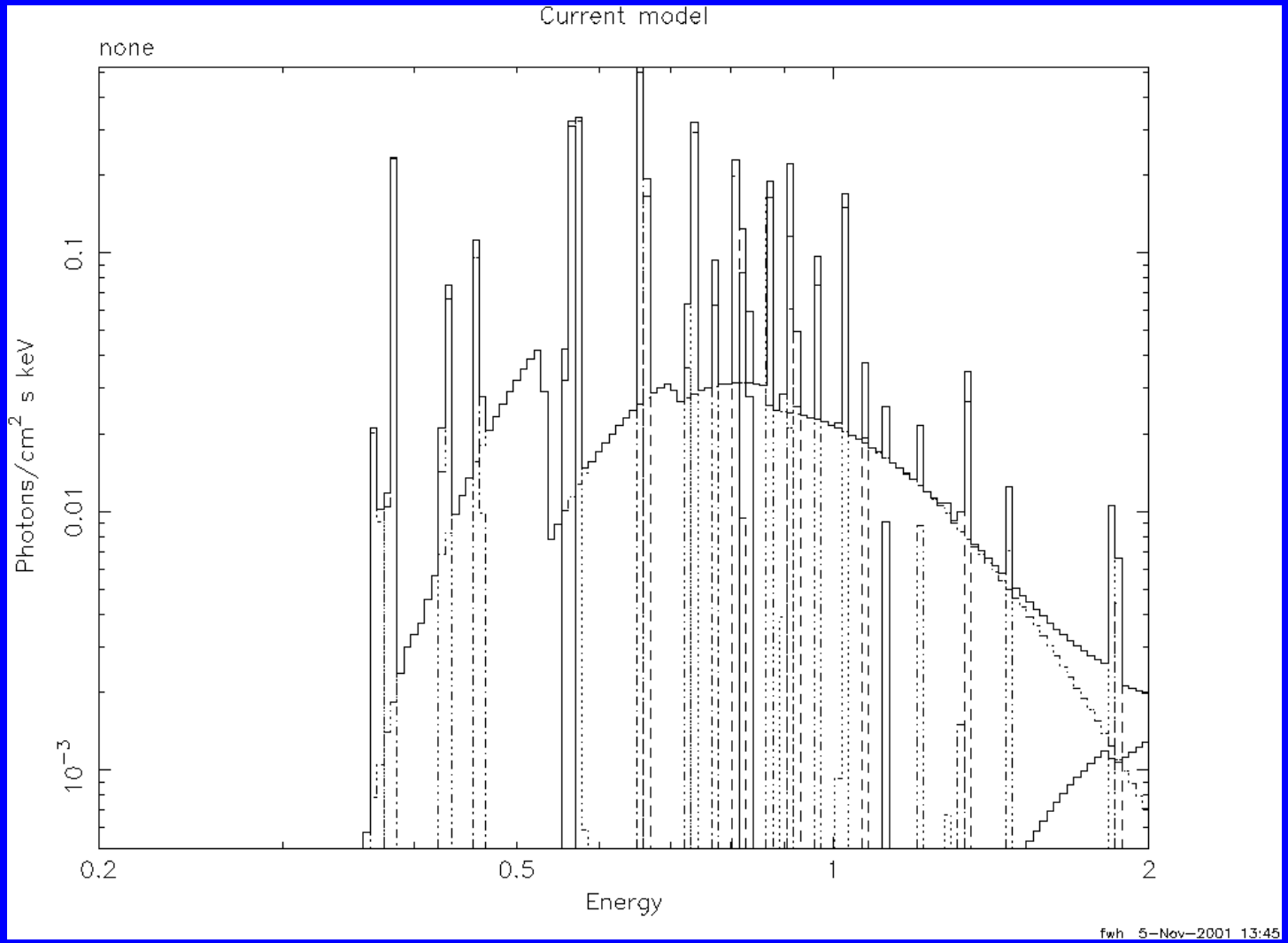


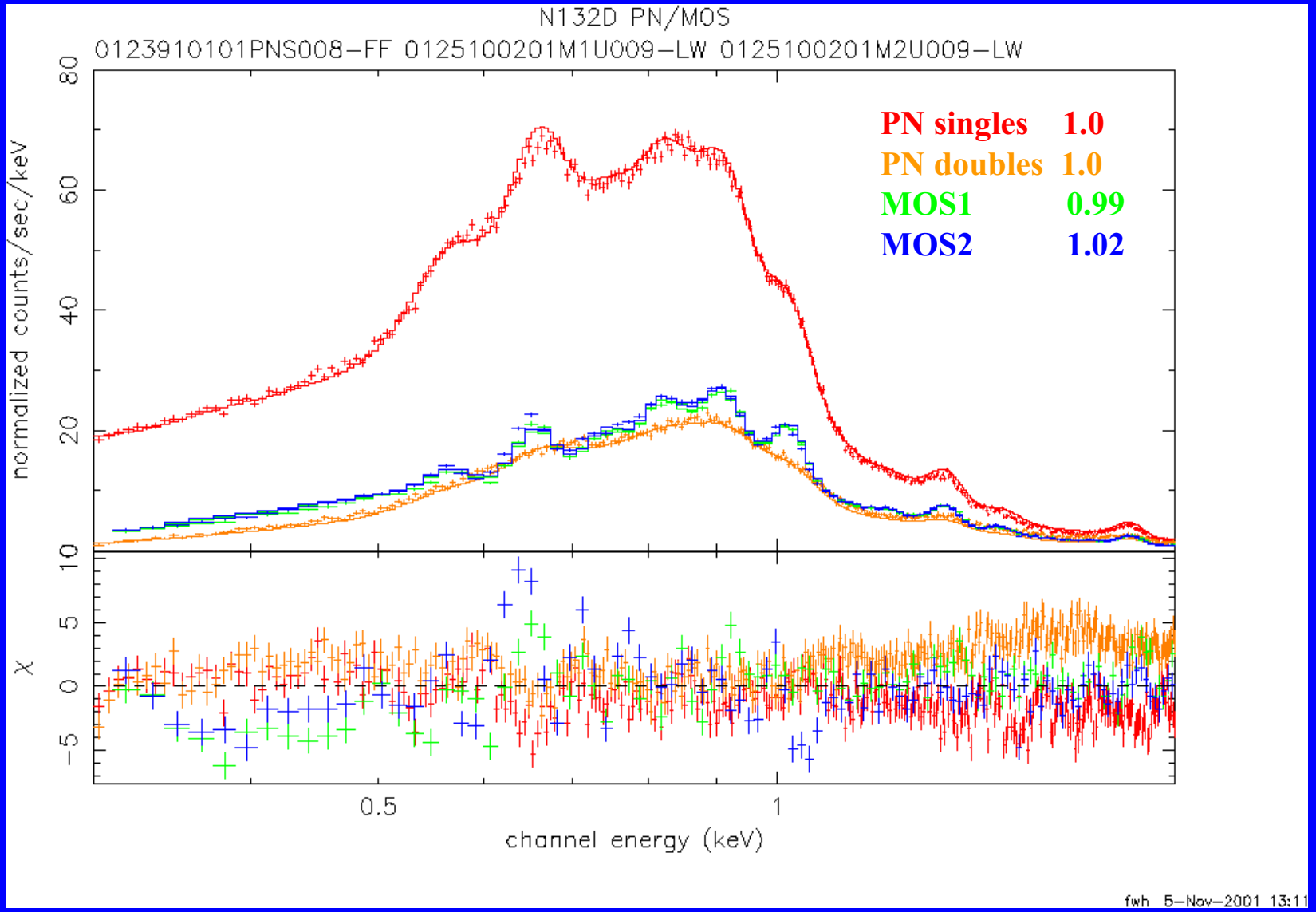



# SNR N132D – spectral model

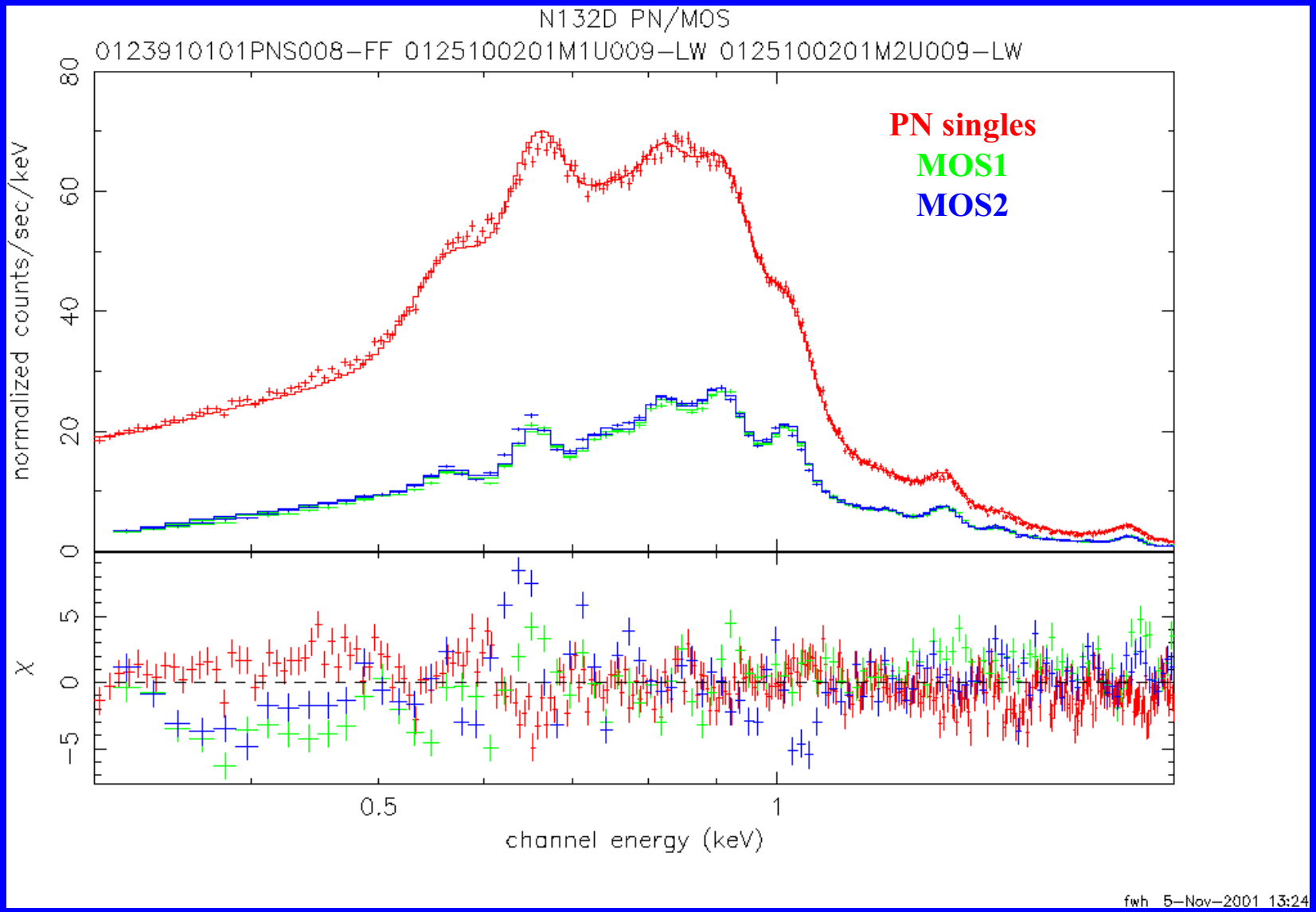
**Continuum: bremsstrahlung (kT ~ 0.28 keV) + powerlaw (γ ~ 2.5)**
**38 Emission lines (Behar et al. 2001, A&A 365, L242)**



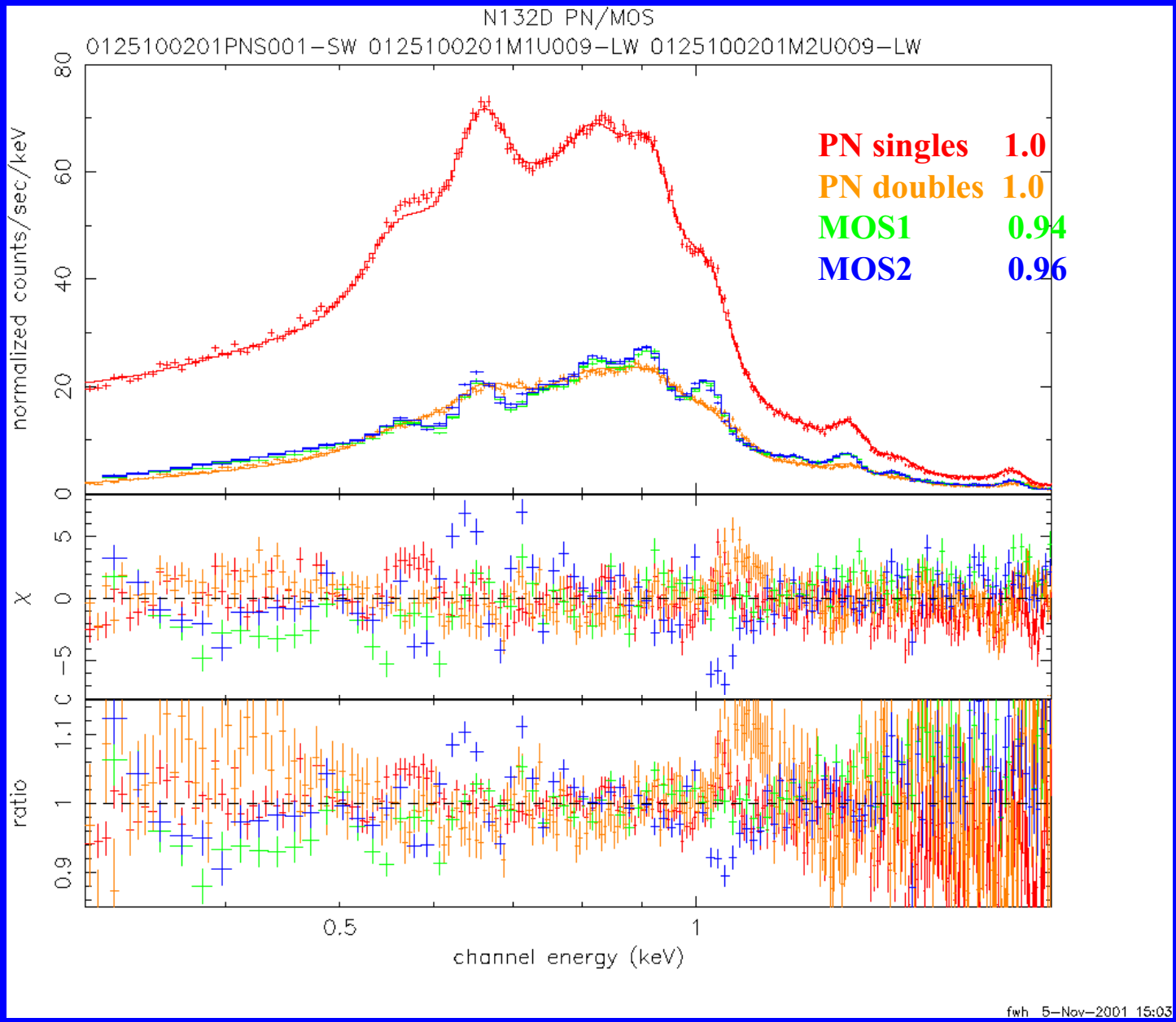
# SNR N132D – PN FF s/d + MOS LW



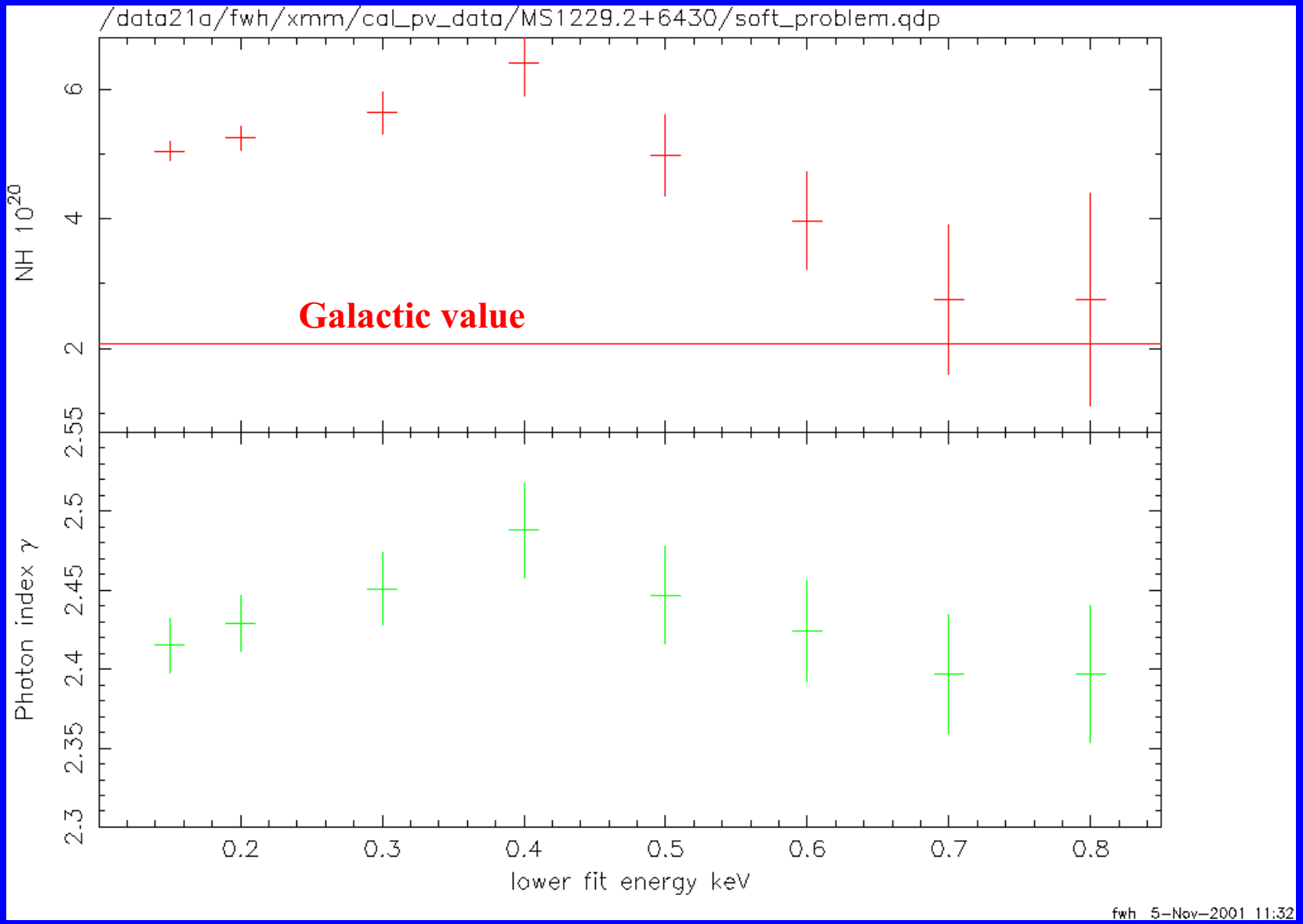
# SNR N132D – PN FF s + MOS LW



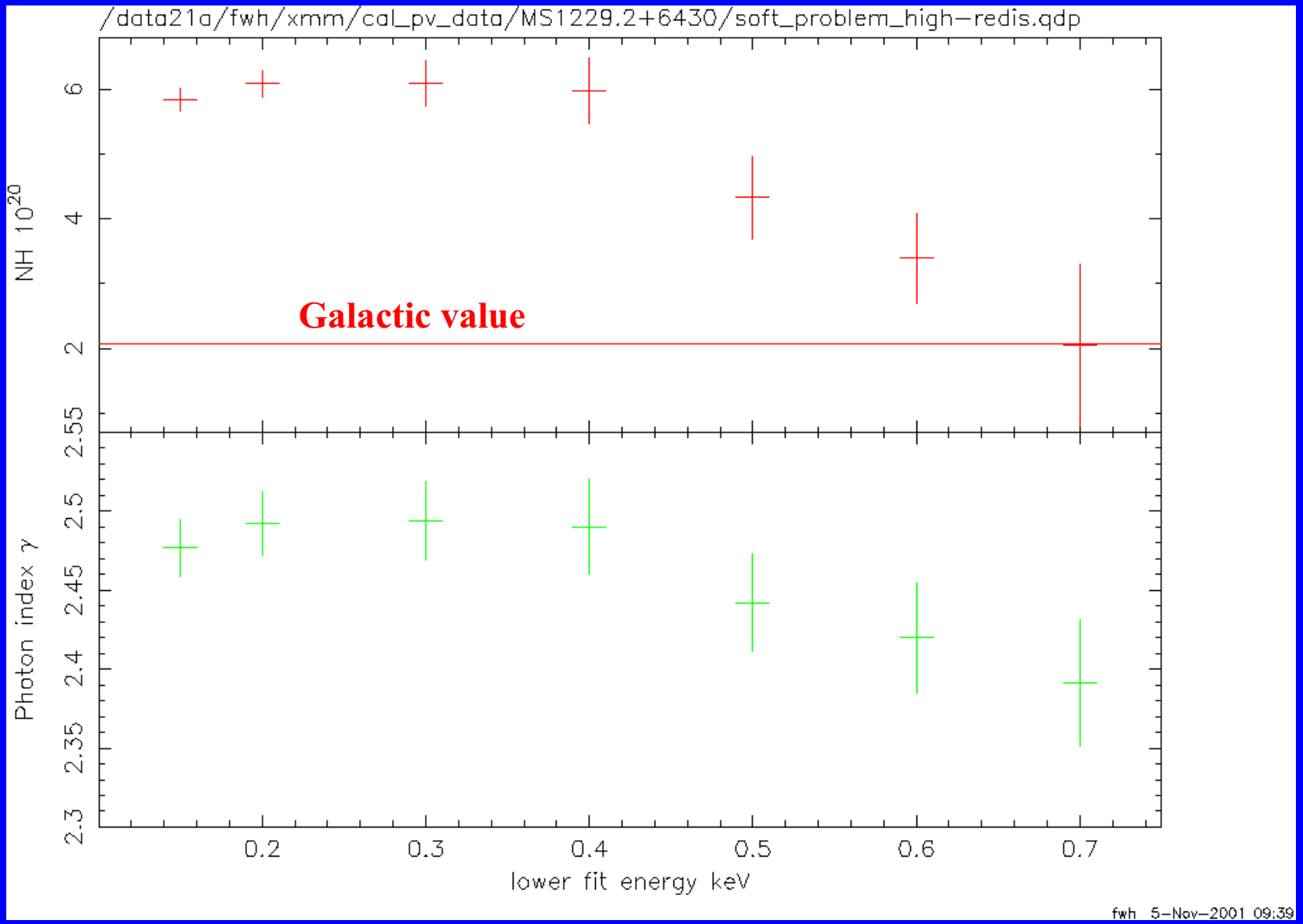
# SNR N132D – PN SW s/d + MOS LW



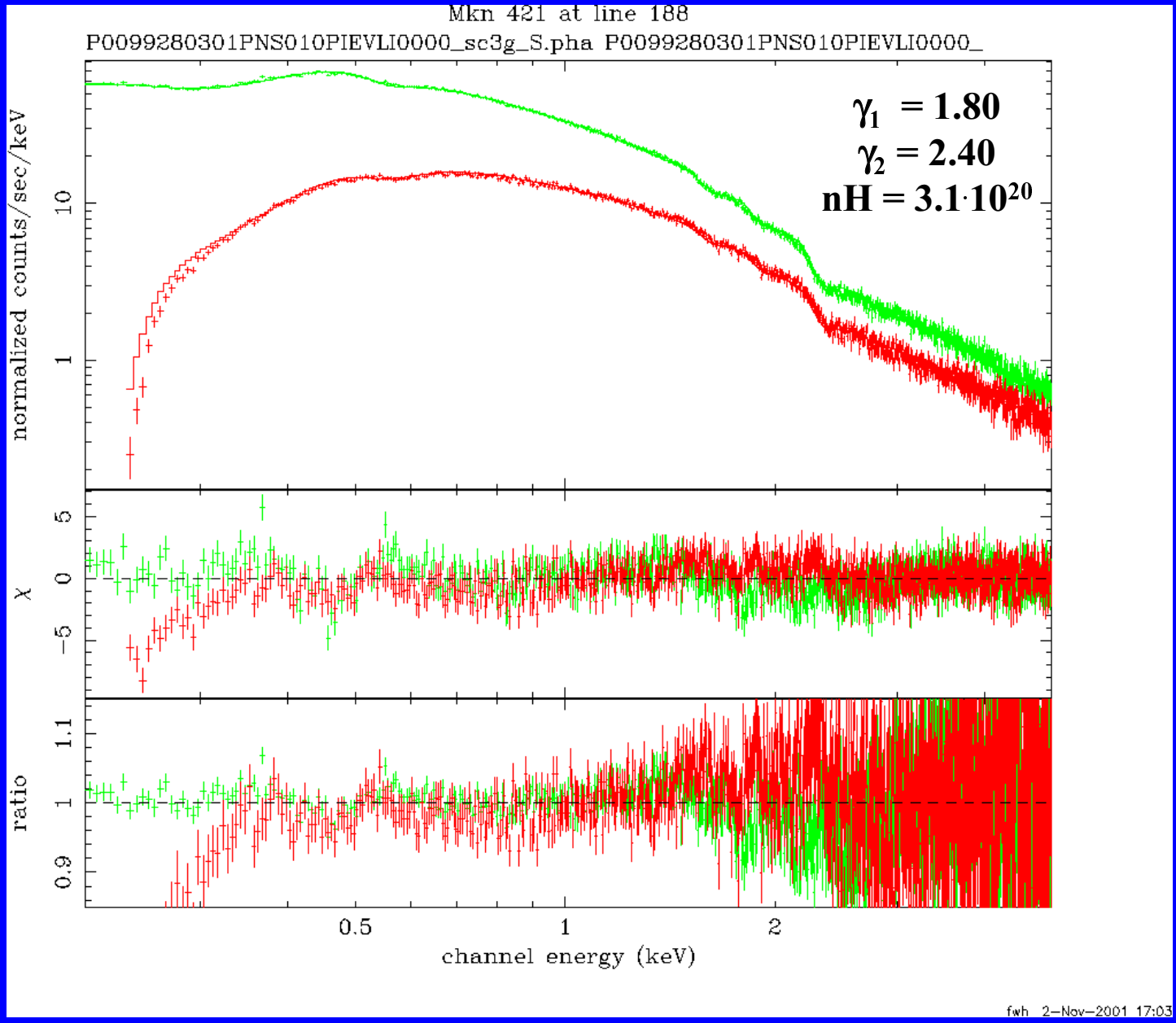
# MS1229.2+6430 – PN FF s/d „old FF“ redistribution



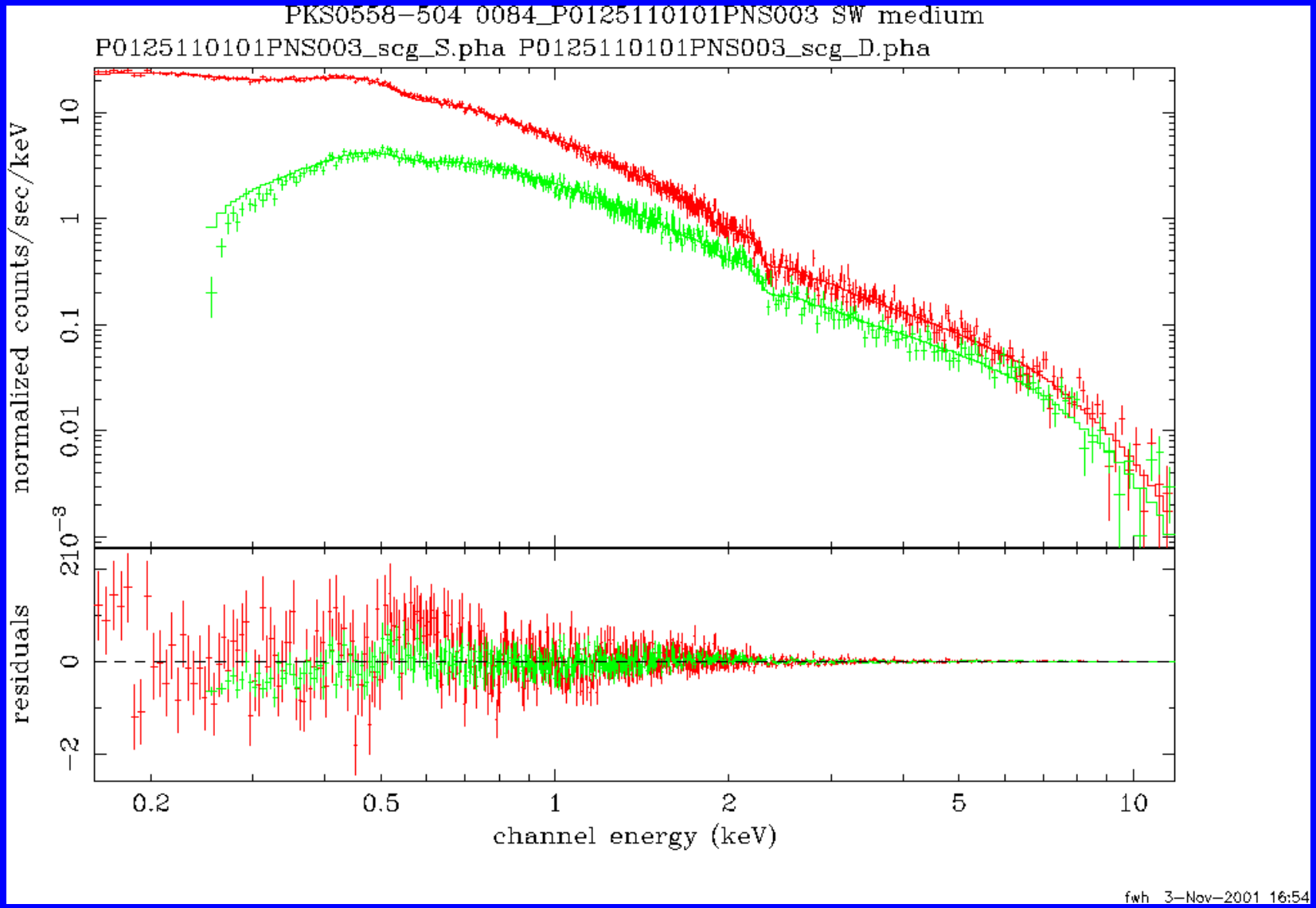
# MS1229.2+6430 – PN FF s/d high redistribution



# Mkn 421 – PN SW s/d



# PKS0558-504 – PN SW s/d



# Comparison MOS/PN

**too much redistribution in response of both instruments?**
**Use fits to MS1229.2+6430 to determine redistribution**
**Still problems around O-edge in PN SW – CTE, redistribution problem?**