

# CTI and time dependent gain corrections

## for ACIS

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Epochs

Trap maps for CTI correction (C. Grant, D. Edgar)

Time dependent gain corrections (A. Vikhlinin)

S1 corrections for HETG/ACIS (D.P. Huenemoerder)

## Epochs from Feb. 2000 - Oct. 2004

Epoch	Dates
I	Feb 2000 - Apr 2000
II	May 2000 - Jul 2000
III	Aug 2000 - Oct 2000
IV	Nov 2000 - Jan 2001
V	Feb 2001 - Apr 2001
VI	May 2001 - Jul 2001
VII	Aug 2001 - Oct 2001
VIII	Nov 2001 - Jan 2002
LX	Feb 2002 - Apr 2002
X	May 2002 - Jul 2002
XI	Aug 2002 - Oct 2002
XII	Nov 2002 - Jan 2003
XIII	Feb 2003 - Apr 2003
XIV	May 2003 - Jul 2003
XV	Jul 2003 - Sep 2003
XVI	Oct 2003 - Dec 2003

Solar flare event during Epoch XVI

Epoch XVIa before Oct. 28 2003

Epoch XVIb after Nov. 5 2003

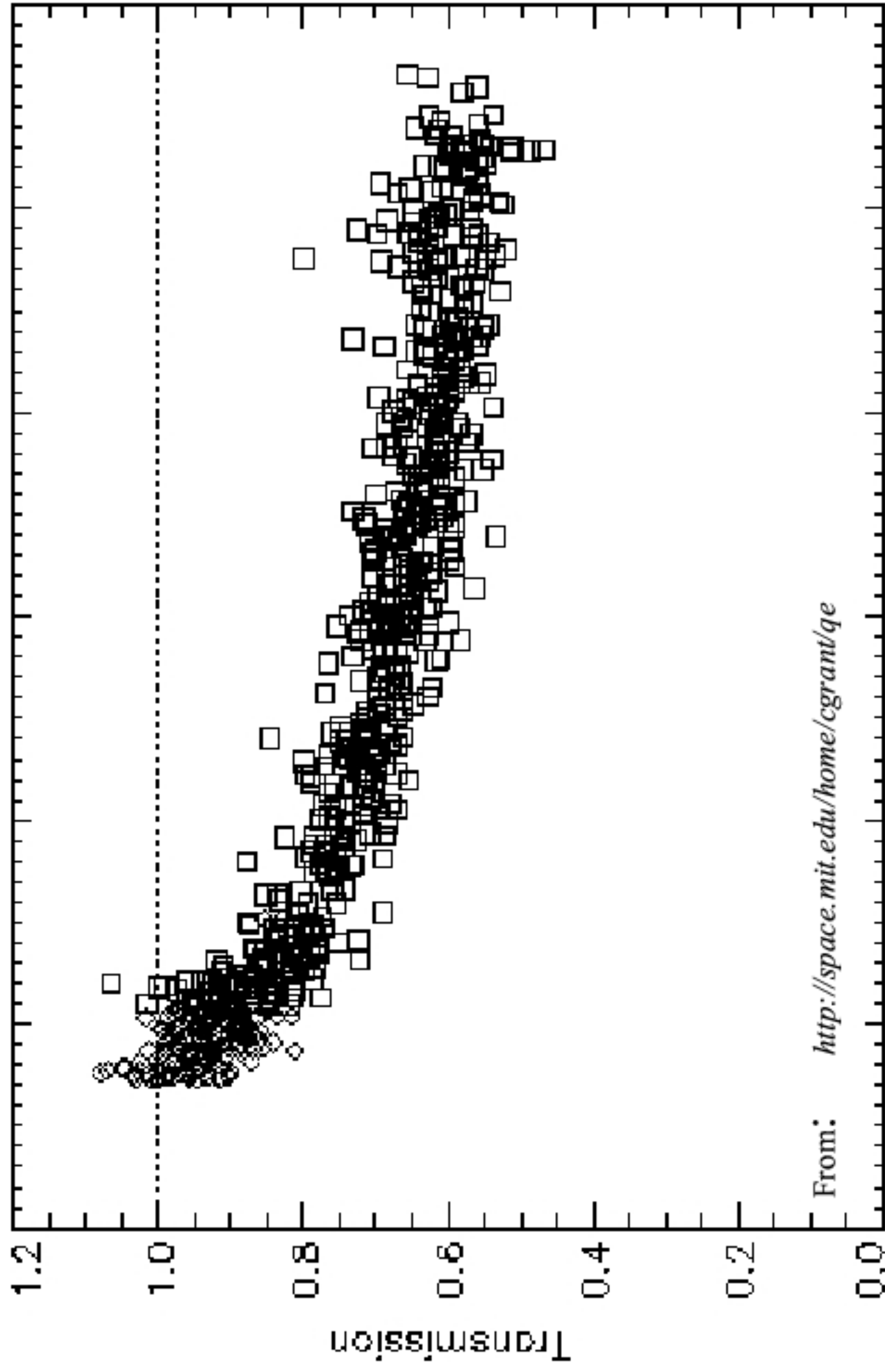
until Dec. 31 2003

Epoch XVIc Jan. 2004

Epoch XVII Feb. 2004 - Apr. 2004

Epoch XVIII May 2004 - Jul. 2004

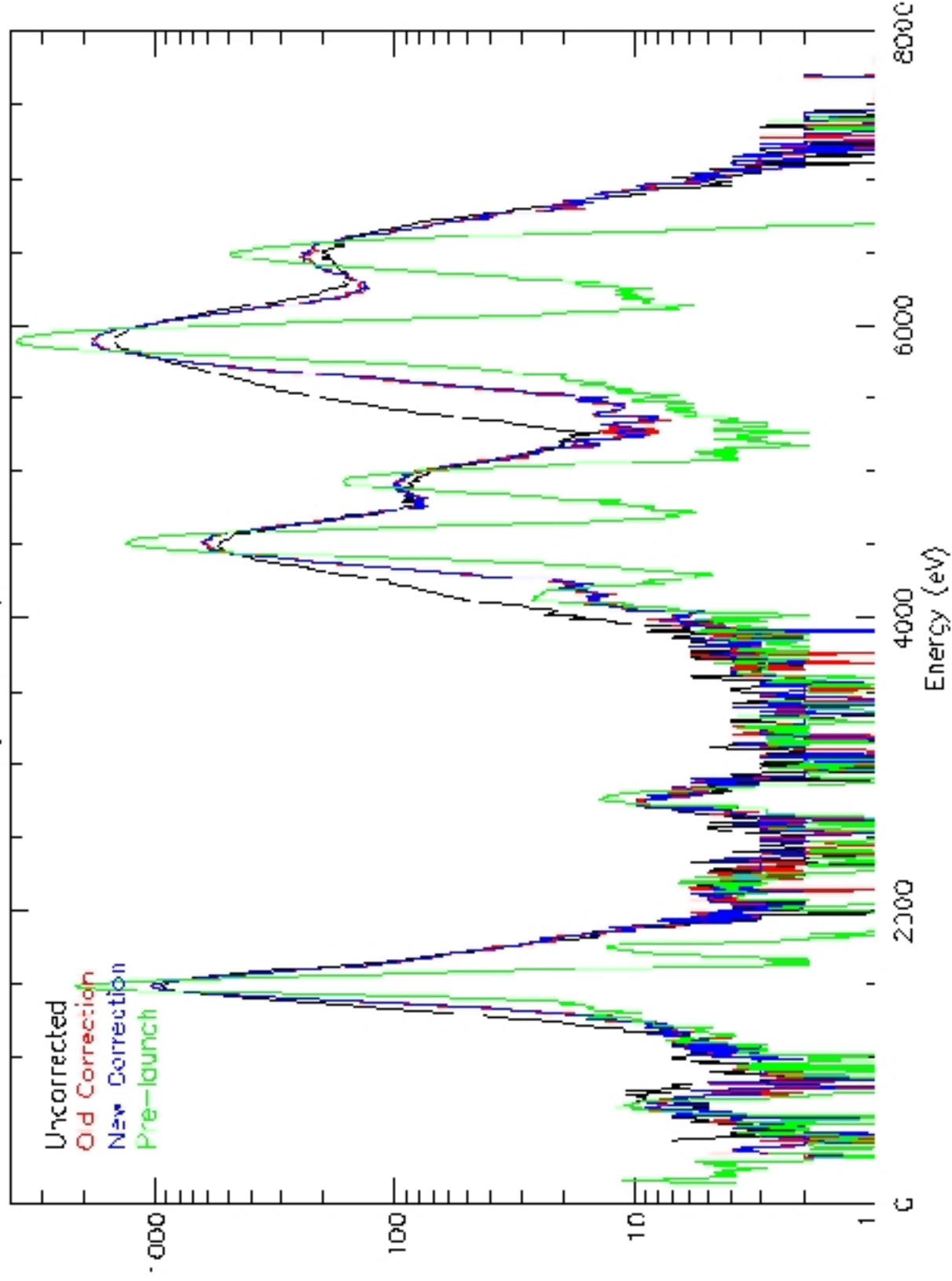
Epoch XIX Aug. 2004 - Oct. 2004



From: <http://space.mit.edu/home/cgrant/qe>

# ECS Spectra

IS, Node 5, 502546



From: <http://space.mit.edu/home/cgrant/cticorr>

Done:

*I0 - 3, S2, S0*

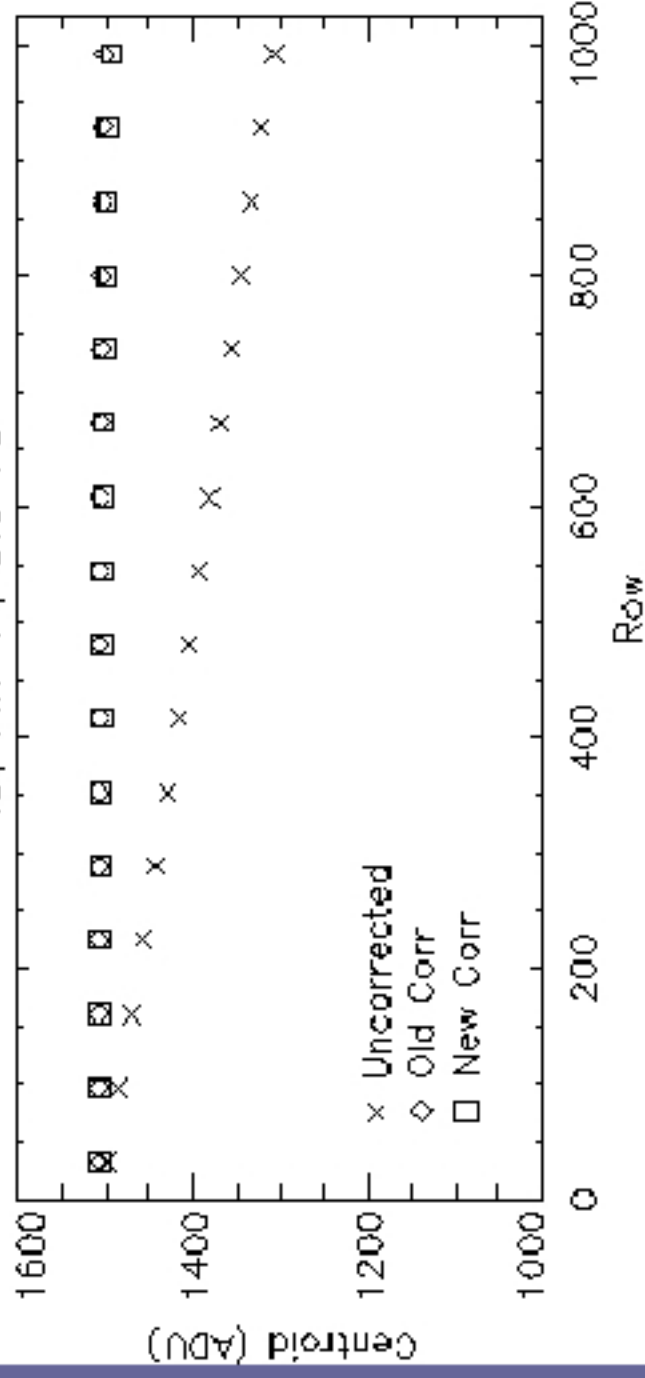
In progress:

*S4, S5*

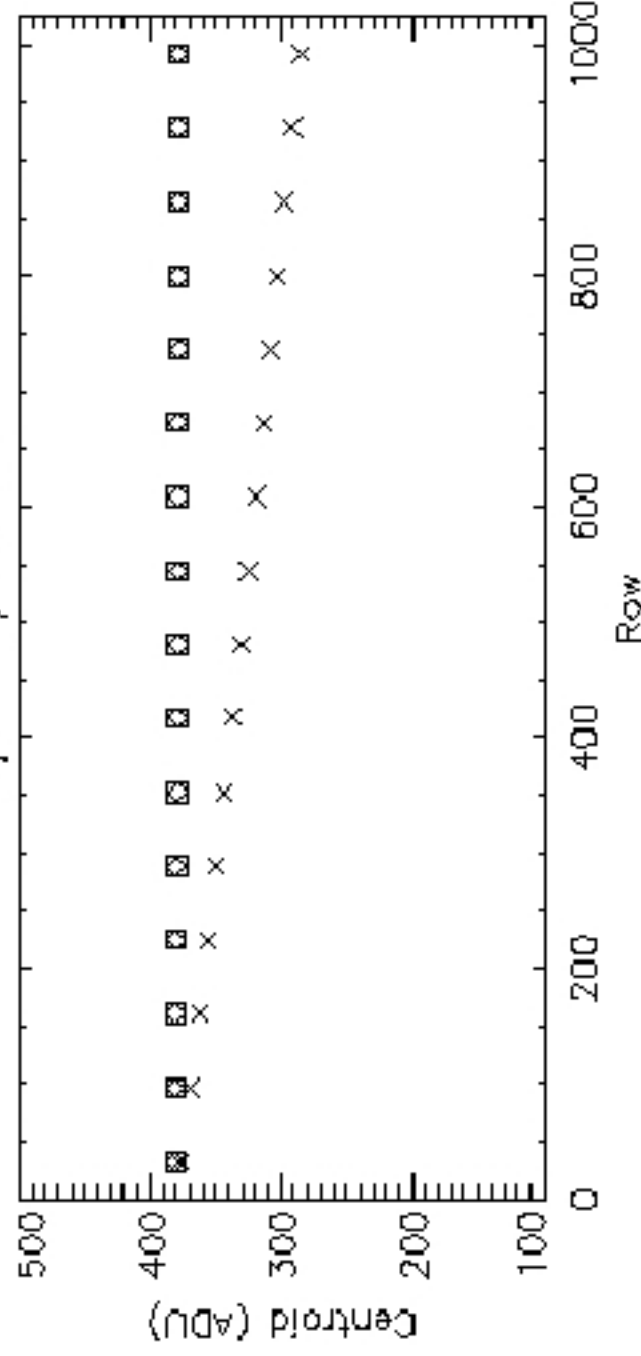
BI-devices:

*none*

I3, Mn-K, 5.9 keV

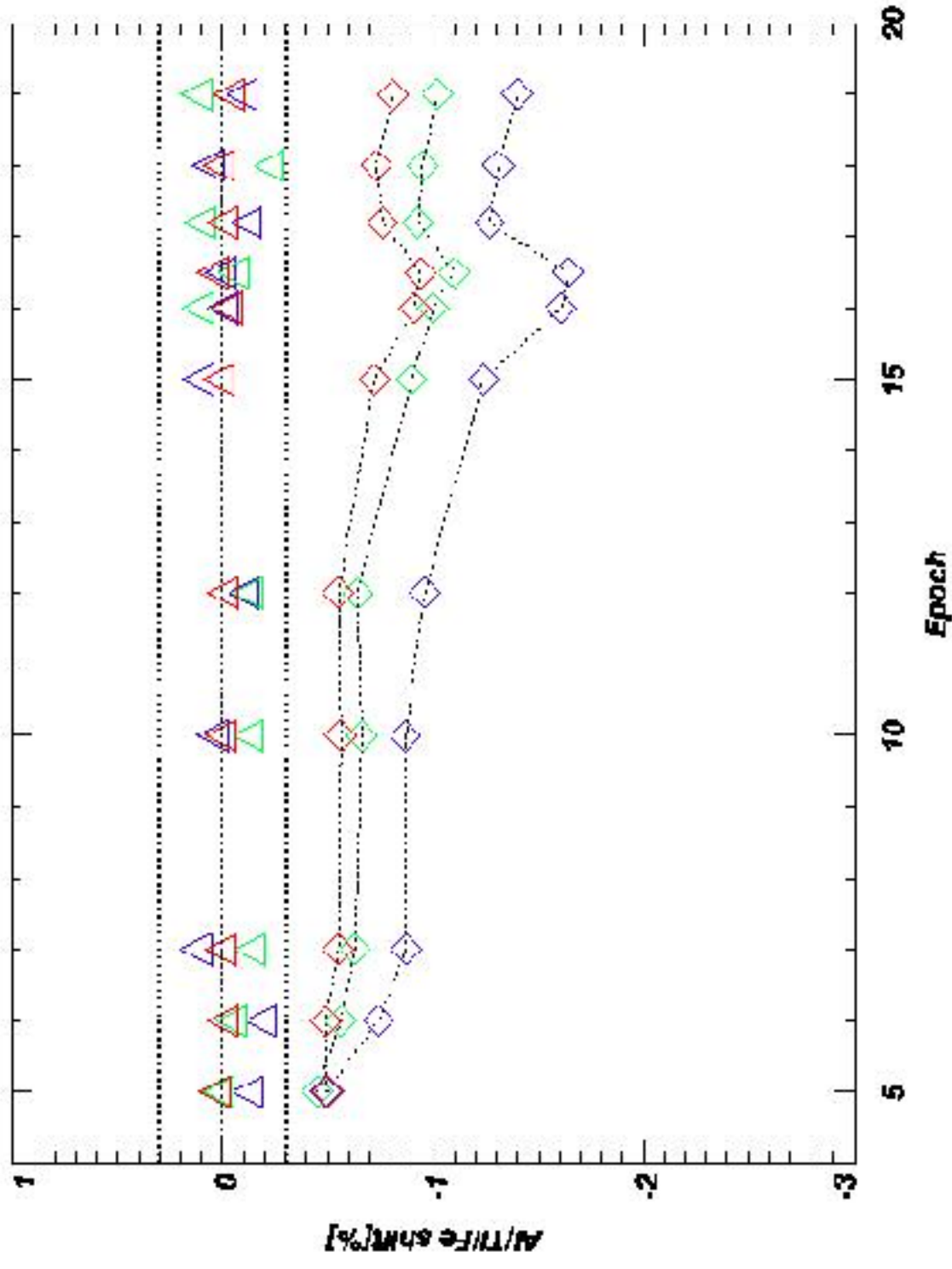


I3, Al-K, 1.5 keV

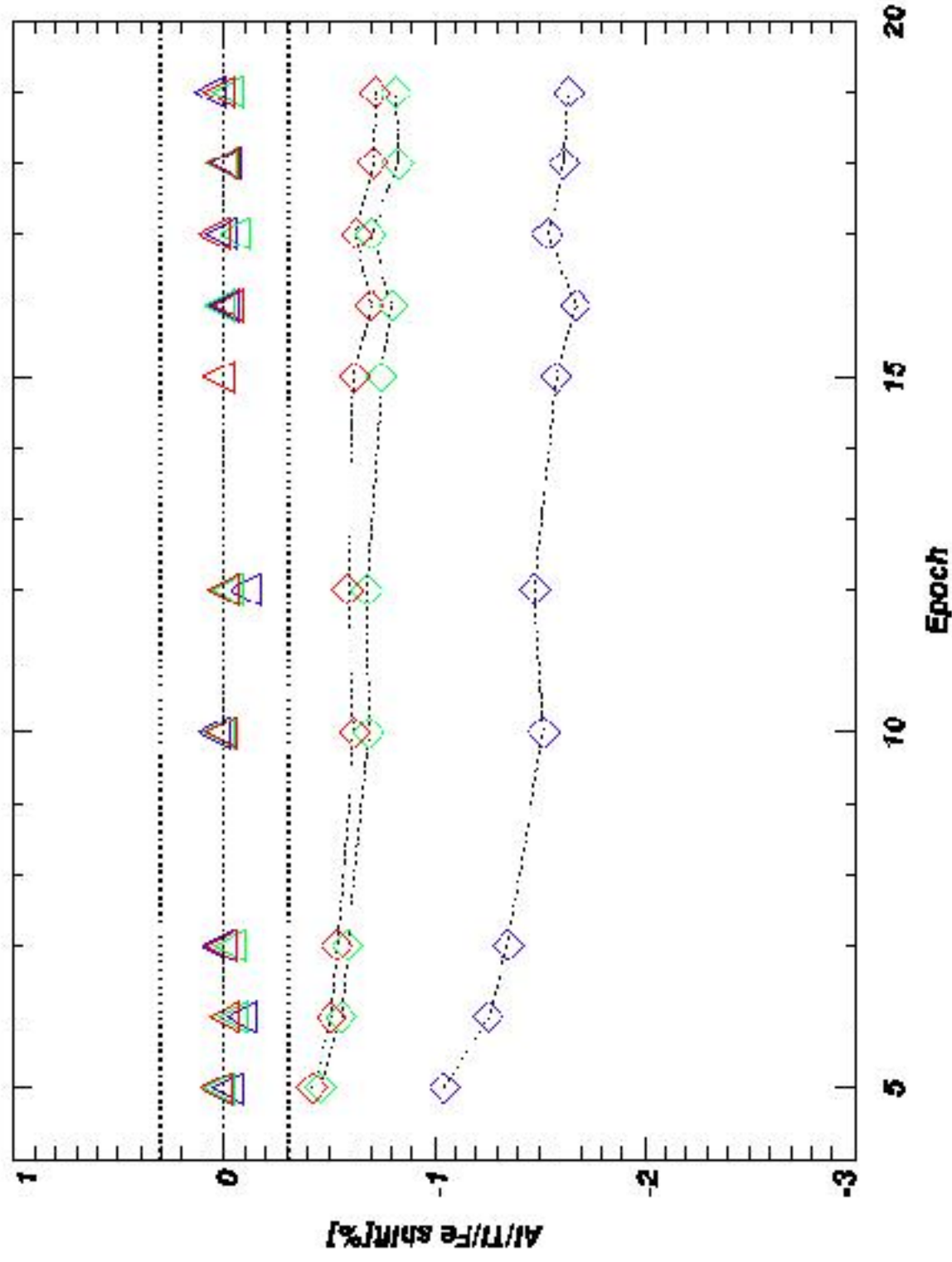




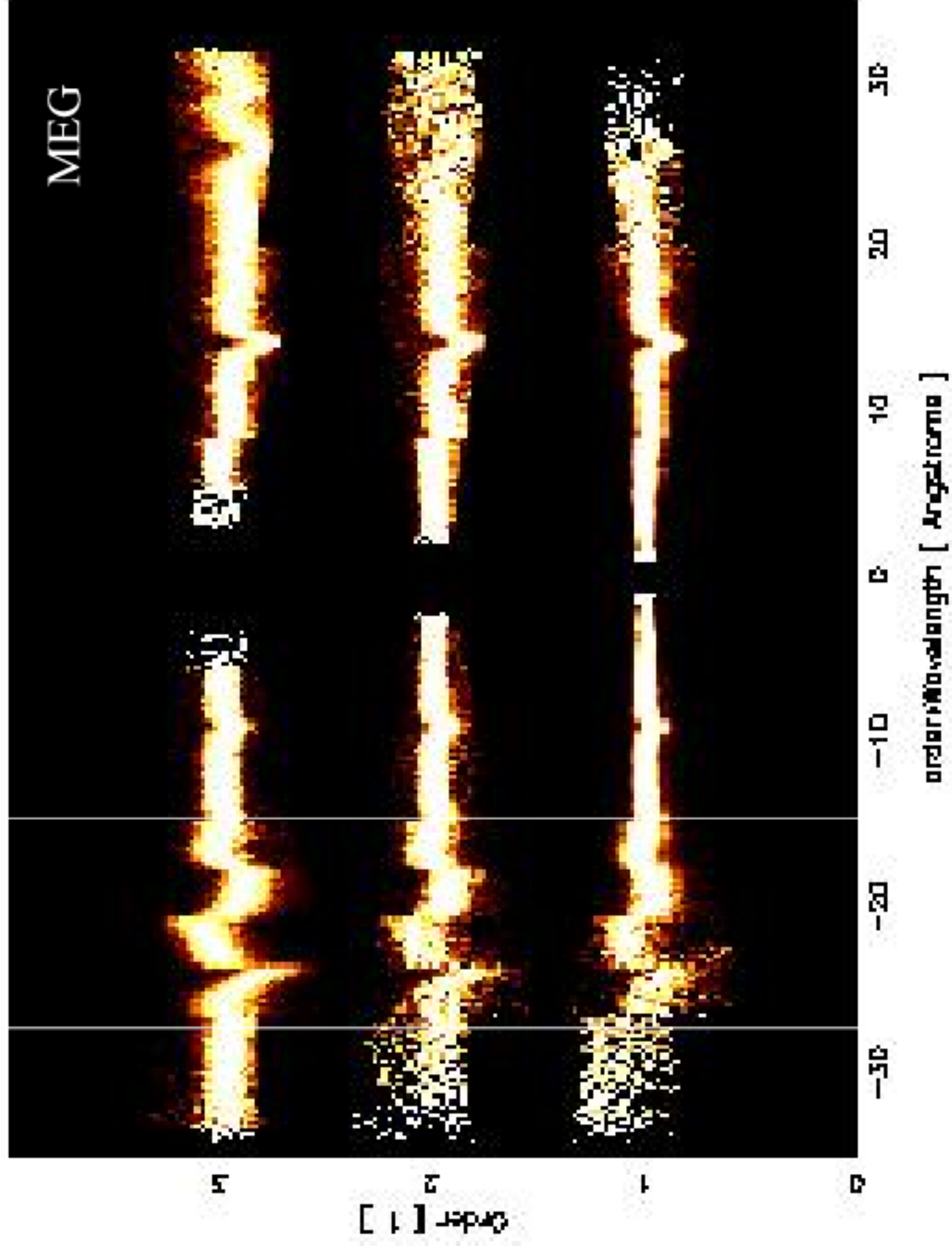
I0 node 0 gain drift for **bottom** **middle** **top**



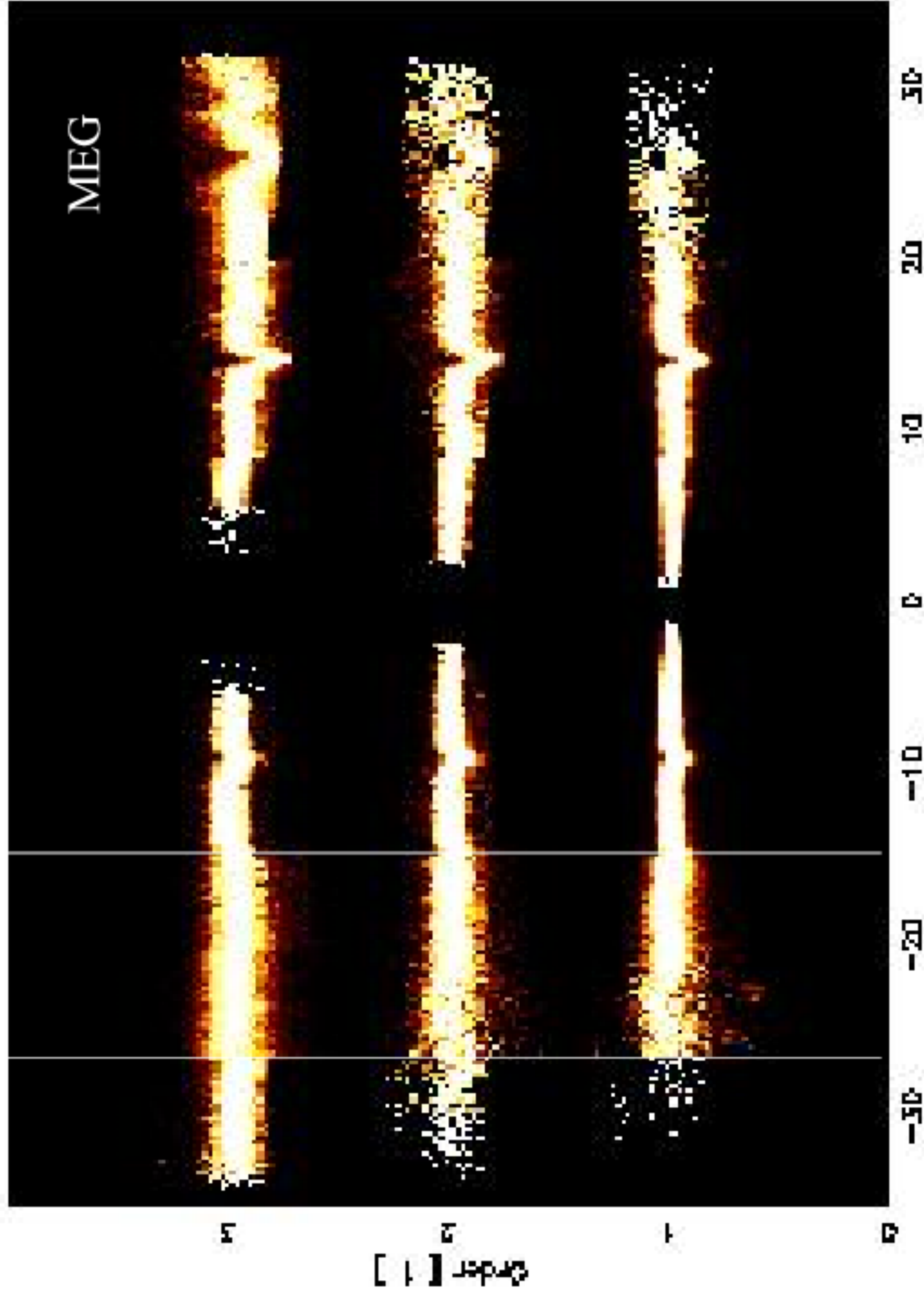
S3 node 0 gain drift for **Al-K** **Ti-K** **Mn-K**

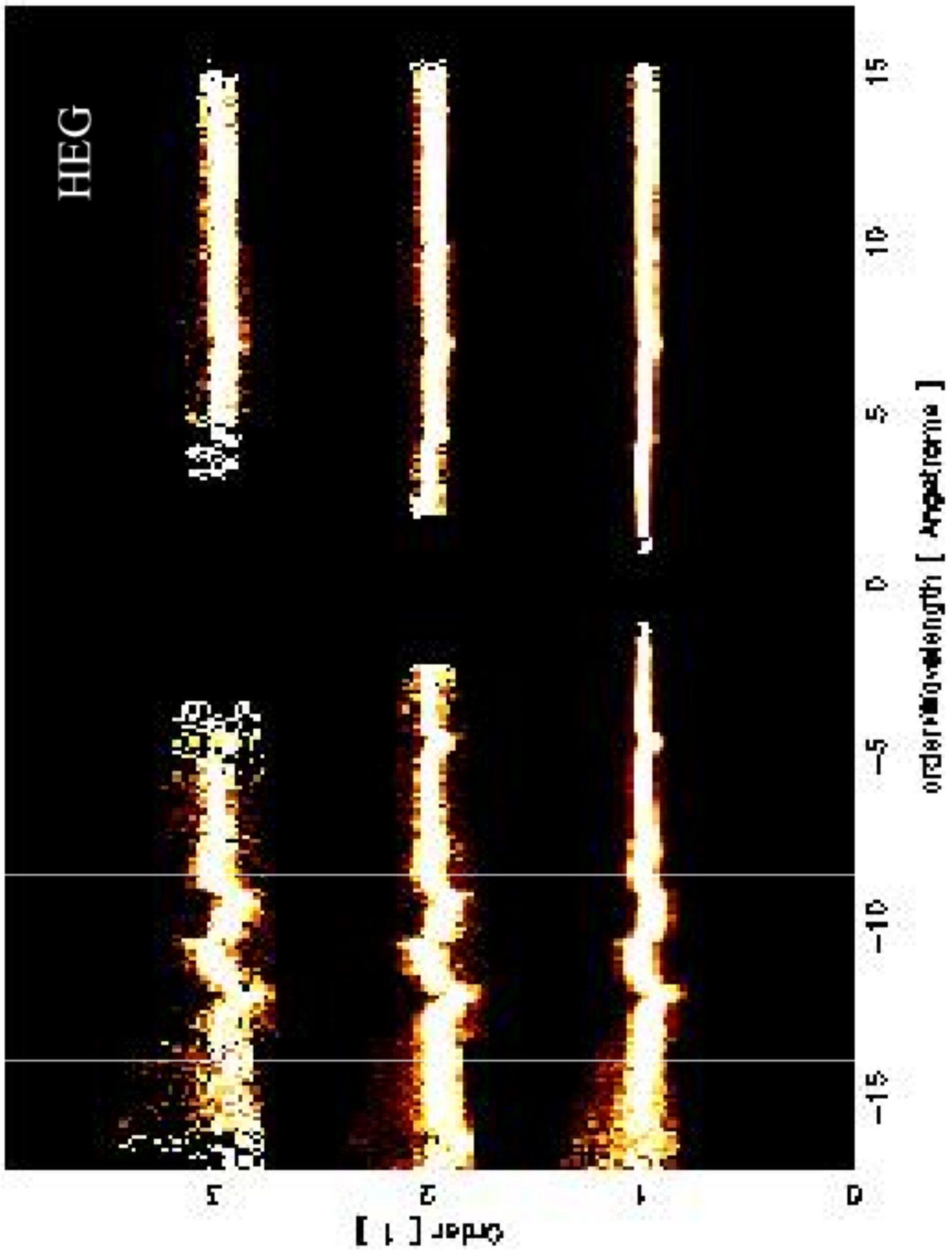




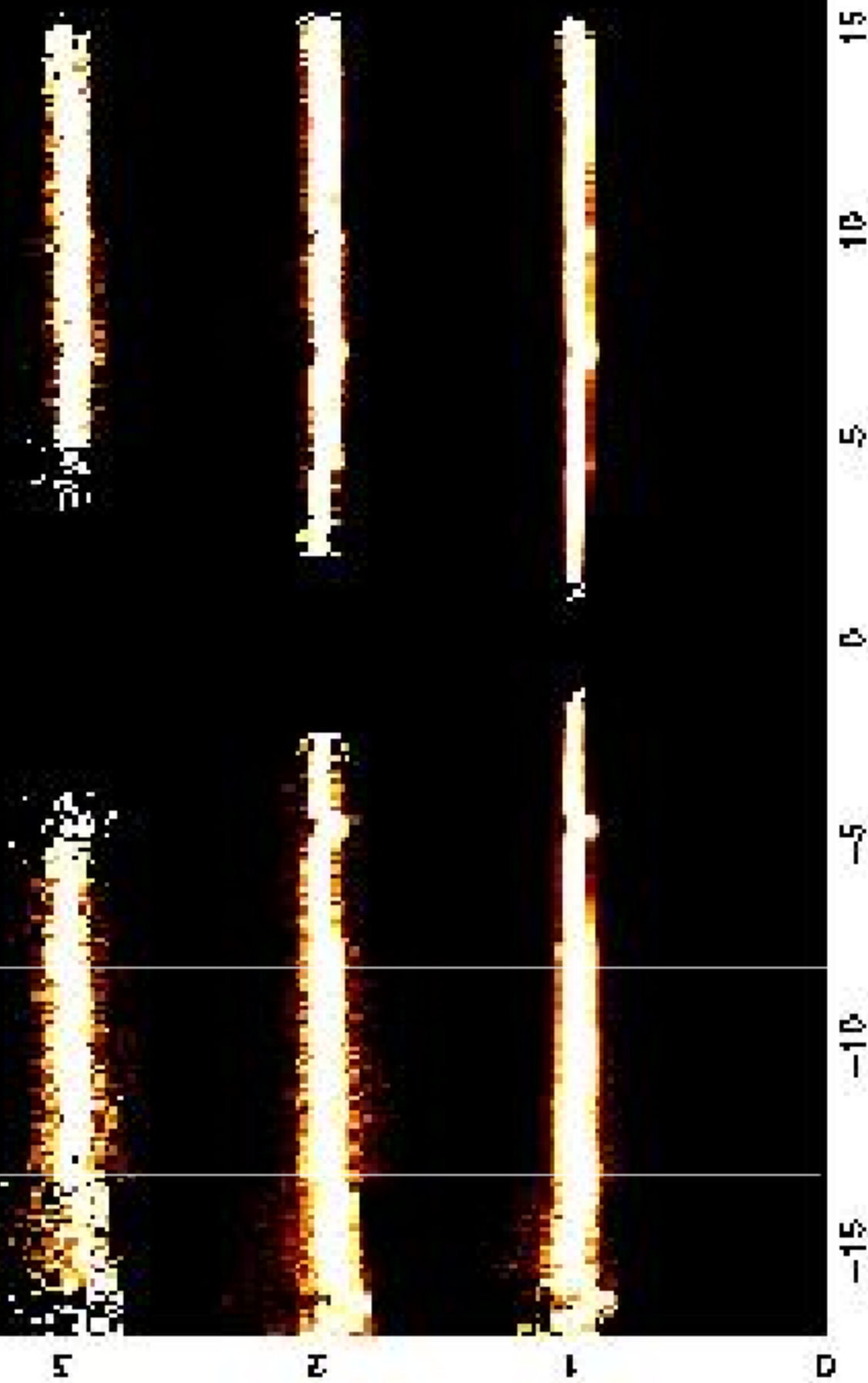


MEG





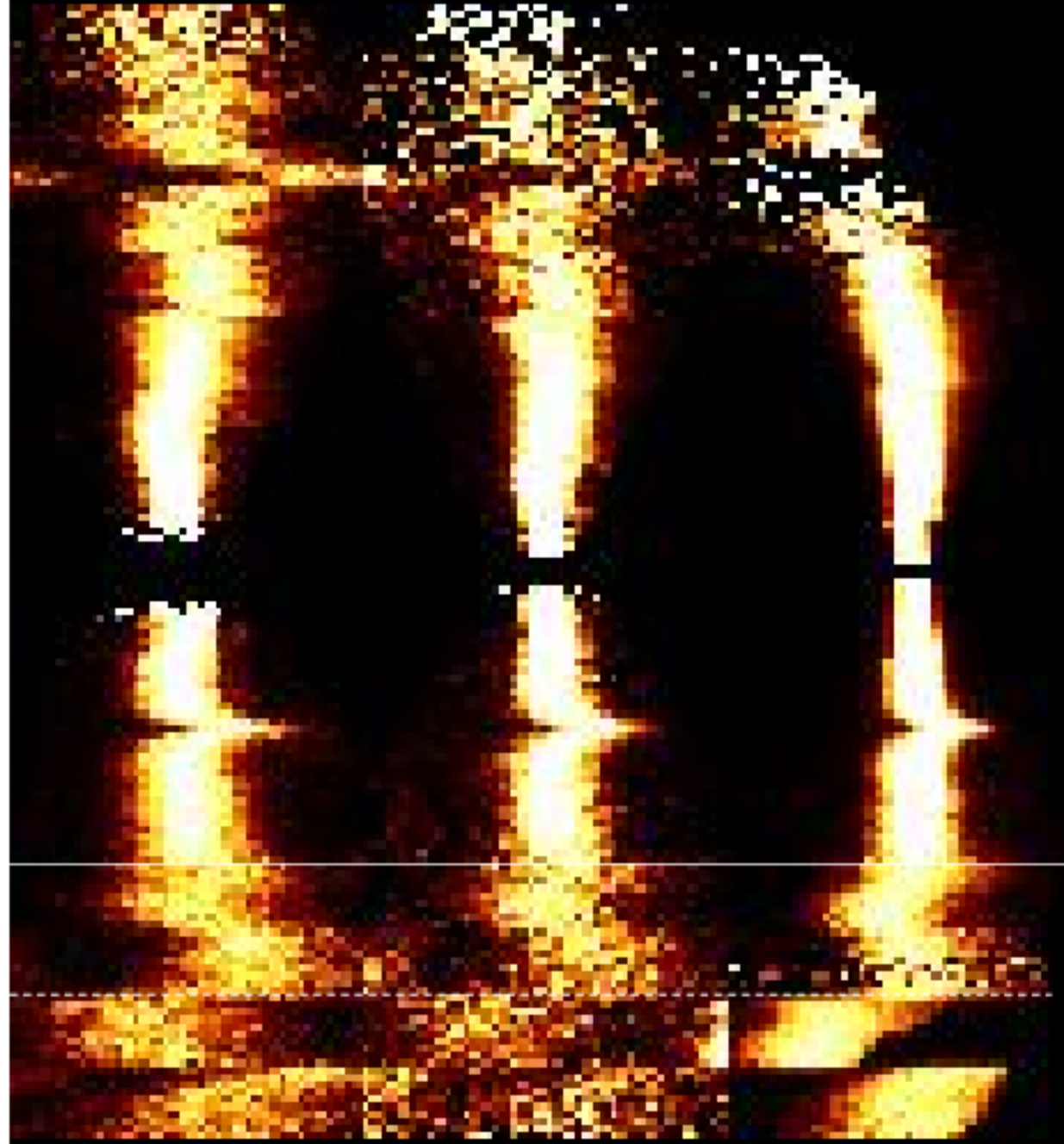
HEG



Order [ 1 ]

order misalignment [ Angstroms ]

LETG

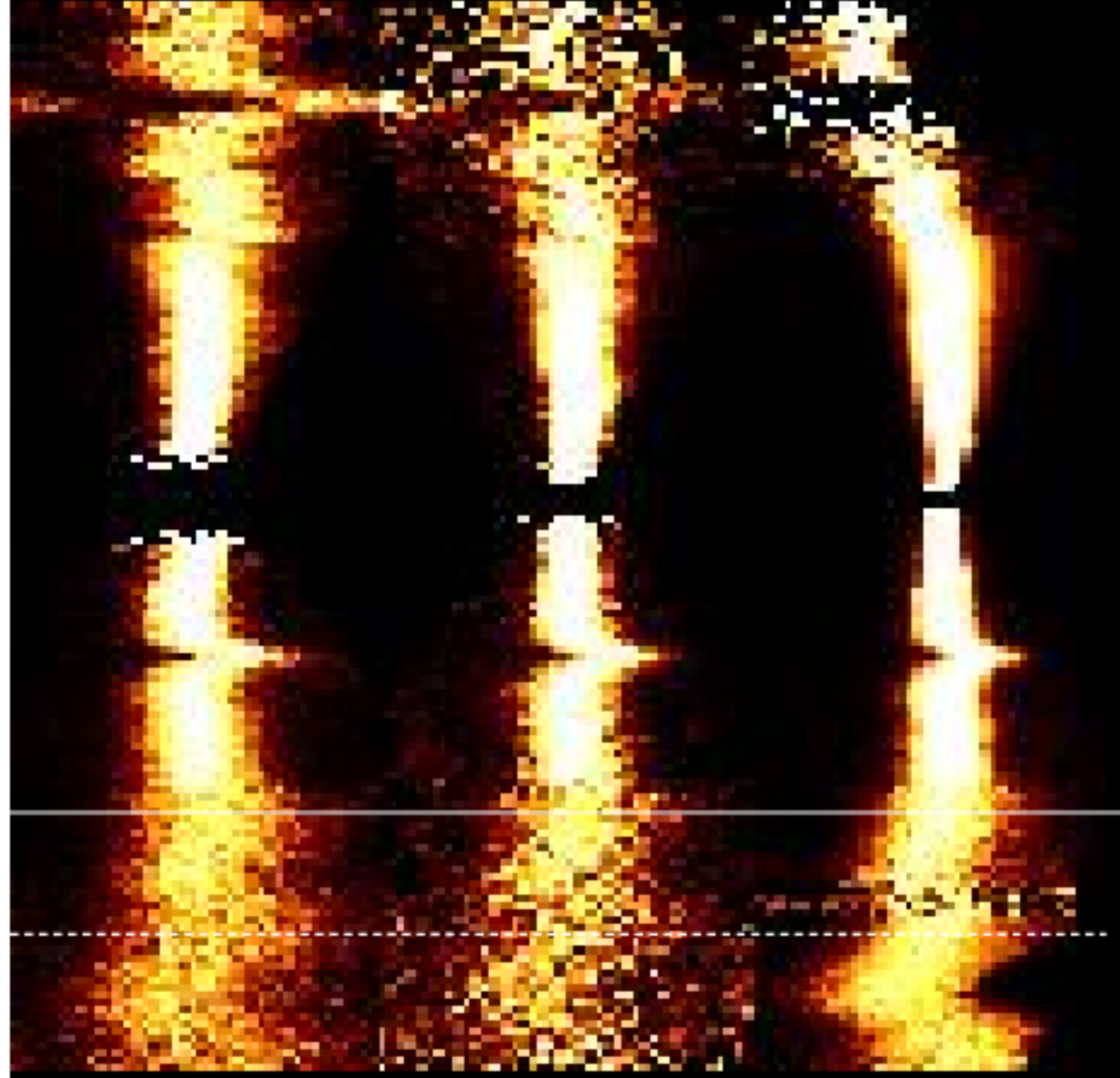


50

0

Wavelength (Å)

LETG



Wavelength (Å)

0

50