

SWIFT-UVOT-000-R00

Date Original Submitted: *April 2, 2009*

Prepared by: Paul Kuin

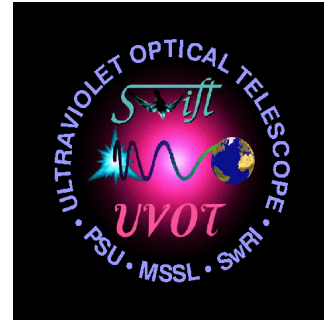
Date Revised:

Revision #00

Revised by:

Pages Changed:

Comments:



The Swift UVOT grism wavelength calibration for the UV nominal mode

Approved by:

UVOT Instrument Scientist, Mike Siegel, PSU

NFI Project Manager, Tom Taylor, PSU

UVOT Lead, Pete Roming, PSU

REVISION SUMMARY

REV	RELEASE DATE	BRIEF DESCRIPTION/REASON FOR CHANGE	EFFECTED PAGES
1.0	26-Mar-2009	Initial Version	All

DISTRIBUTION LIST

RECIPIENT	INSTITUTION	NO. OF COPIES

1	SUMMARY	4
2	RELEVANT DOCUMENTS	4
3	SCOPE	4
4	DATA USED	4
5	INTRODUCTION	5
6	METHOD USED OF DETERMINING THE WAVELENGTH CALIBRATION ..	6
6.1	Use of the <i>Zemax</i> UVOT optical model	6
6.2	Finding the input angle from the sky position	6
6.3	Determination of the boresight for the grism image at 2600 Å in first order	7
6.4	Model scale factor for the dispersion dimension	7
6.5	The anchor point position in the calibration image	7
6.6	Fitting to ground calibration data.....	7
6.7	Fitting to Wolf-Rayet spectra across the detector	9
7	DESCRIPTION OF ANALYSIS	9
7.1	Accuracy of the anchor point	11
7.2	Accuracy of the wavelengths using the calibration file	13
8	SUMMARY	18