

Description of the XRT calibration files for the rev1.0 data

Yoshitomo Maeda (ISAS/JAXA) and the XRT team

E-mail: ymaeda@astro.isas.jaxa.jp, xrthelp@astro.isas.jaxa.jp

1 Introduction

This document is intended for guest observers to get minimum required information about the XRT CALDB files in order to analyze the Suzaku XIS data. All the files are used as defaults in “xissim” simulator. For the other descriptions for XIS, one can refer to the document “Description of the XIS calibration files”.

2 Geometry Description File

2.1 Files

```
ae_xrt0_mirror_20050505.fits
ae_xrt1_mirror_20050505.fits
ae_xrt2_mirror_20050505.fits
ae_xrt3_mirror_20050505.fits
ae_xrts_mirror_20050505.fits
ae_xrt0_pcol_20050505.fits
ae_xrt1_pcol_20050505.fits
ae_xrt2_pcol_20050505.fits
ae_xrt3_pcol_20050505.fits
ae_xrts_pcol_20050505.fits
```

2.2 Description

These files contain the information about the geometry description files for the reflectors (mirror) and pre-collimator (pc). They are defined for each module, XRT-I0,1,2,3 and S.

The parameters adopted here are determined based on our ground calibrations before the launch.

2.3 Where are they used?

They are referred in “xissim” to simulate the xis data.

3 Thermal Shield Transmission File

3.1 Files

```
ae_xrta_shield_20051129.fits
```

3.2 Description

These files contain the X-ray transmission table on the thermal shield.

The parameters adopted here are determined based on our ground calibrations before the launch.

3.3 Where are they used?

They are referred in “xissim” to simulate the xis data.

4 Reflectivity File

4.1 Files

`ae_xrta_reflect_20060419.fits`

4.2 Description

These files contain the X-ray reflectivity table on the front and backside surface of the reflectors and pre-collimator blades.

The parameters adopted here are determined based on our ground calibrations before the launch.

4.3 Where are they used?

They are referred in “xissim” to simulate the xis data.

5 Backside Reflection/Scattering Profile File

5.1 Files

`ae_xrta_backprof_20060406.fits`

5.2 Description

These files contain the X-ray reflection/scattering profile on the backside surface of the reflectors.

5.3 Where are they used?

They are referred in “xissim” to simulate the xis data.

The parameters adopted here are determined based on our ground calibrations before the launch.