XMM-Newton CCF Release Note

XMM-CCF-REL-14

RGS Line Spread Function

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1 CCF components

Name of CCF	VALDATE	List of	Blocks	CAL VERSION	XSCS flag
		$_{ m changed}$			
RGS1_LINESPREADFUNC_0001	1999-01-01T00:00:00	SCATTER,	LAS-	_	NO
		CAT			
RGS2_LINESPREADFUNC_0001	1999-01-01T00:00:00	SCATTER,	LAS-	_	NO
		CAT			
RGS1_CROSSPSF_0001	1998-01-01T00:00:00	CROSSPSF		_	NO
RGS2_CROSSPSF_0001	1998-01-01T00:00:00	CROSSPSF		_	NO

2 Changes

LINESPREADFUNC This contains parameters of

- half energy width of the grating co-alignment distribution based on pre-flight integration data
- the scatter model based from pre-flight modeling. No change to the scatter model was identified so far;

rgsrmfgen does not use this CCF.

CROSSPSF Contains parameters of a pre-flight parameterization of the size of the dispersed image in in the cross-dispersion direction as a function of dispersion angle. These parameters are based on simulations with SciSim;

these data are used by for the generation of the image slection regions rgsregion. rgsrmfgen does not use this CCF.

3 Scientific Impact of this Update

First release.

4 Estimated Scientific Quality

rgsrmfgen uses pre-flight data for the parameterizations of the LSF. At this point in time these are internal to rgsrmfgen.

The pre-flight parameterizations in general need to be reviewed together with updates from the mirror PSF, which are not being used at the moment.