

13th ESAC SAS Workshop
10th - 14th June 2013

Step-by-step guide to the RGS
data analysis threads

Rosario González-Riestra

XMM-Newton SOC
ESAC

Two Threads:

- How to reduce RGS data and extract spectra of point-like sources

http://xmm.esac.esa.int/sas/current/documentation/threads/rgs_thread.shtml

- rgsproc, coordinates and masks

http://xmm.esac.esa.int/sas/current/documentation/threads/rgs_thread_2.shtml

How to reduce RGS data and extract spectra of point-like sources

- running rgsproc
- the output filenames
- useful checks:
 - ✓ coordinates
 - ✓ extraction regions position
 - ✓ high background periods

...and answers to some frequent questions

rgsproc, coordinates and masks

- How to deal with some common problems:
 - a) wrong source coordinates:
how to change the coordinates of the prime source
 - b) moderately extended sources:
how to change the size of the extraction region
 - c) several sources in the Field of View:
how to change the background region

RGS data for the hands-on session

AB Dor :
Active star, emission line object

PKS 0558-504:
Quasar, continuum spectrum

Mkn 421:
BL Lac, continuum spectrum

G21.5-09:
SNR, extended source

HD 13499:
F star, empty field

Lockman Hole:
Empty field



