

Science issues

- Hi Res X-ray Spectroscopy of stars and supernova remnants; study of stellar coronae
- Spectra of distant quasars
- Spatially resolved spectra of clusters of galaxies; optically invisible hot gas
- Search for new populations of faint sources
- Resolve individual sources in galaxies

XMM

- Europe's big X-ray observatory
- Launch on Ariane 5 (fingers crossed!)
- Large area
- Many nested mirrors; 20 arcsec resolution
- Three identical mirror modules
- RGS Spectrometer
- Optical monitor telescope

Spektr-Rontgen-Gamma (SRG)

- The USSR's last big project
- Uses modified early warning satellite spacecraft
- Launch by Proton-K from Kazakstan (formerly Kazakhstan).
- Soviet-Danish X-ray Telescope (SODART) with proportional counters and spectrometer, 2' resolution
- Birmingham's JET-X coded mask with 30" resolution
- Russian MART-LIME coded mask
- Israel's TAUVEK ultraviolet telescope
- LANL's MOXE