

O EXPERIMENTO MIRAX E ESTUDO DE 1E 1740.7–2942

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Workshop da Divisão de Astrofísica

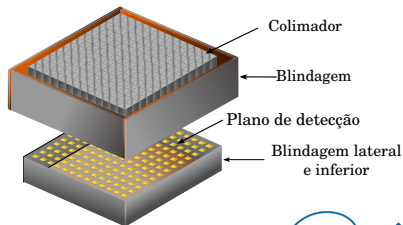
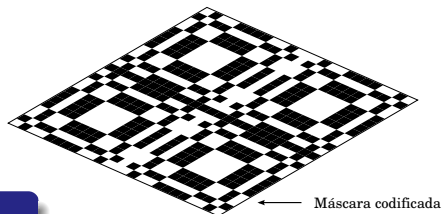
7 - 8 de abril de 2015



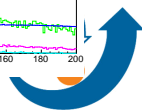
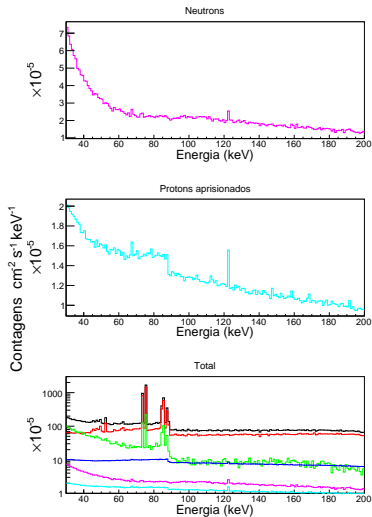
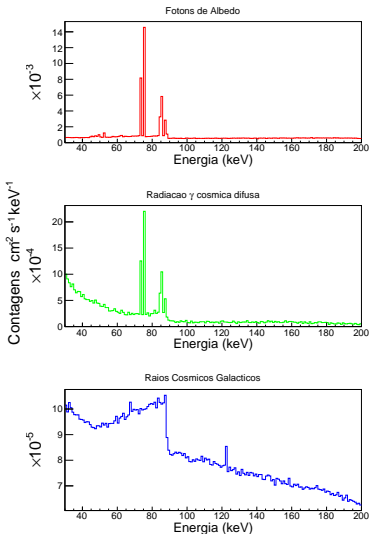
O experimento MIRAX

Comportamento instrumental

- Simulações do ruído de fundo.
- Eficiência da blindagem.
- Distribuição de contagens no plano de detecção.

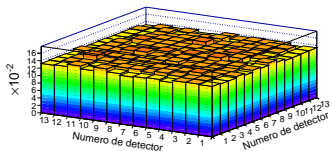


Espectro de ruído de fundo

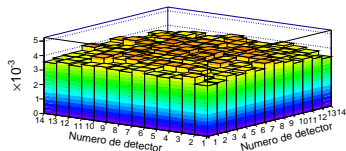


Distribuição espacial do ruído

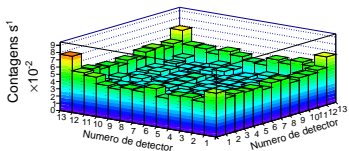
Fotons de Albedo



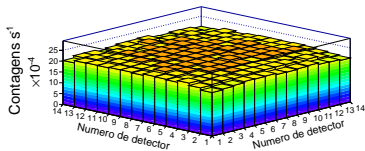
Neutrons



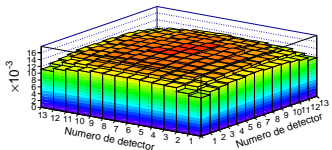
Radiação cósmica difusa



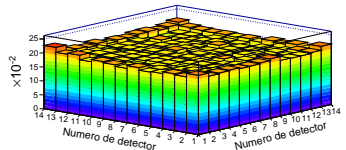
Protons aprisionados



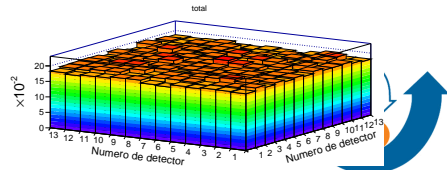
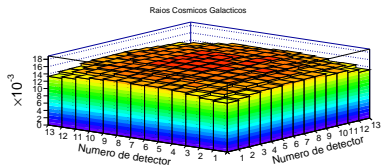
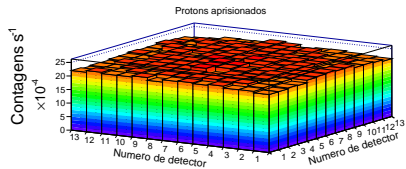
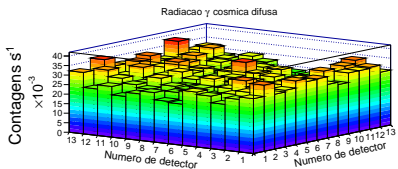
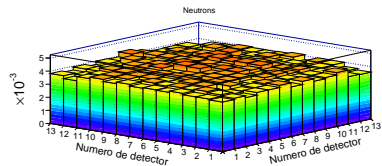
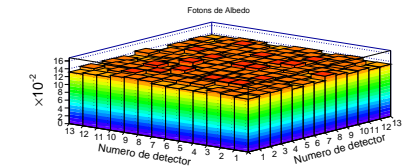
Raios Cósmicos Galácticos



total

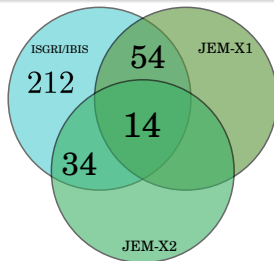


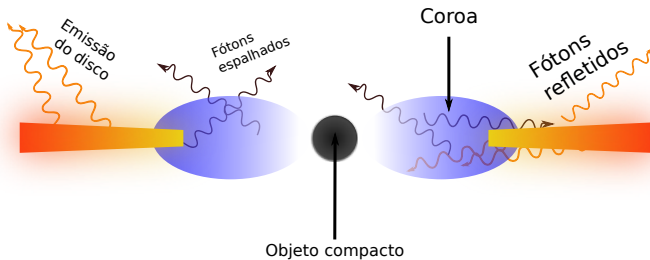
Distribuição de contagens



Estudo de 1E 1740.7–2942 com INTEGRAL

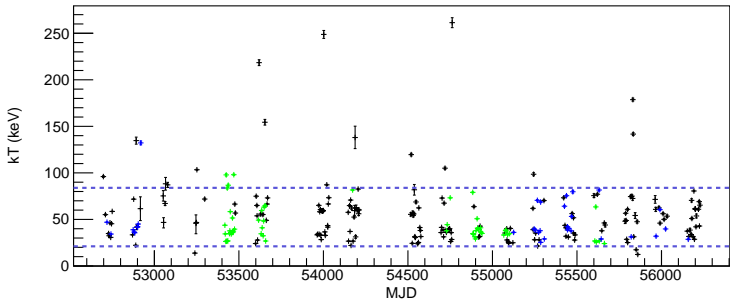
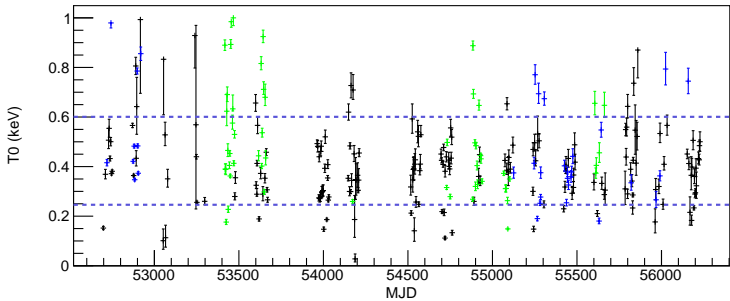
- Observações com INTEGRAL: ISGRI/IBIS e/ou JEM-X (1 ou 2).
- Janeiro de 2003 - Dezembro de 2012.

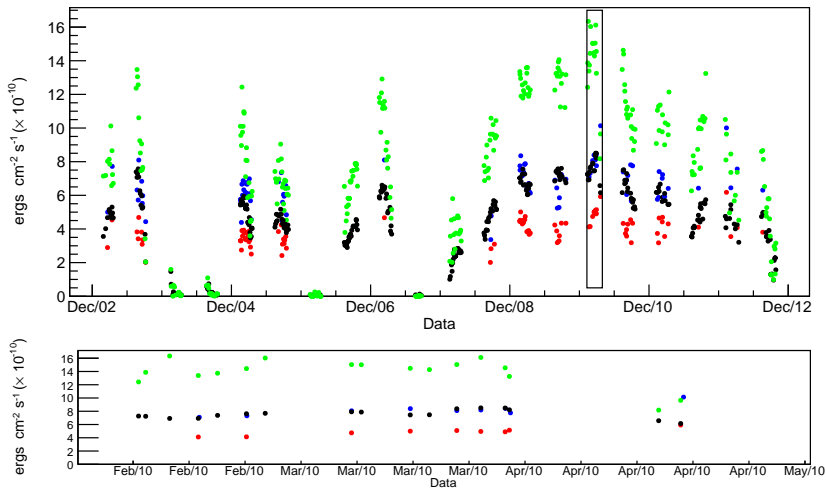




Fonte com emissão no estado Low/Hard

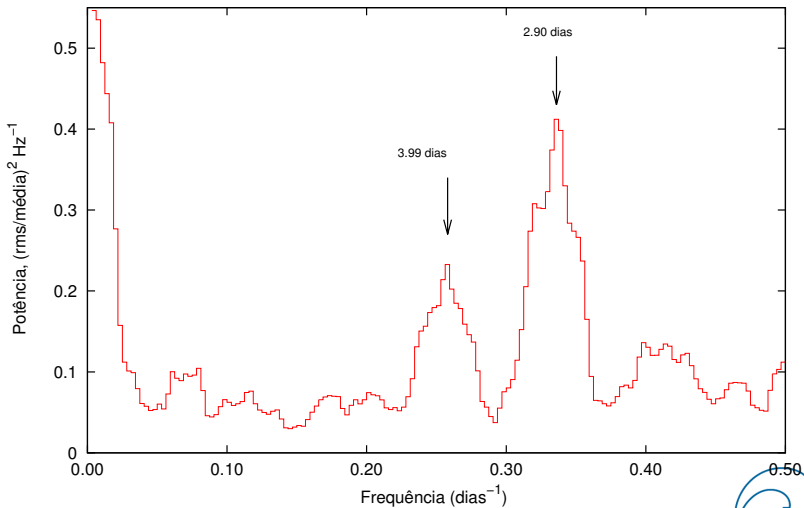






5 - 20 keV em azul, 10 - 20 keV em vermelho, 20 - 50 keV em preto
50 - 200 keV em verde





- Estudo de reconstrução de imagens para o MIRAX (com RGBs).
- Blindagem para o protoMIRAX.
- Estudo da periodicidade para 1E 1740.7–2942.
- Emissão em raios X de GRBs.

