

# IBIS team @IAPS + few other IAPS staff: 17y lunch



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# IBIS Italian team Mission Support

- IBIS is supported with an ASI/INAF agreement starting from August 2016 up to the end of 2019 (A. Bazzano)

This support is for **non** permanent positions, Clean Room maintenance and PI Team support for duties/travels.

**A new agreement has been signed the 15 November. The formal ASI-INAF agreement will start beginning 2020 for 3y funding at the same level of the past years:**

- **9 FTE** from INAF, all of them are on permanent contracts working on calibration, cross calibration, instrument health monitoring and operation, IBAS and science (GPS, AGN, Galactic Sources, GW etc)
- **2 FTE** working 60% on INTEGRAL/XMM, etc data
- **1 Contract** at IAPS for real time data flow and informatics support waiting for the new setup from ISOC, becoming soon (<April 2020) staff member.

- 1 Temporary contract @ IASP, started 1 August 2019 mainly on PiCsIt calibration and data exploitation, MM activities, Burt Advocate
- 2 AdR started on May 2018: 1 @ OAR-Bologna on X-ray follow up of INTEGRAL source and 1 @IAPS-Rome on Radio coverage of INTEGRAL sources
- 0.4 Fellowship on HEMERA- working on GPS data

IBIS overall is as launched (apart low threshold & cal source)

No redundancy used yet → no drastic sign of degradation

Funds for ongoing operation and PI duties guaranteed.



### **Mikhail G. Revnivtsev Prize**

**It is our intention to continue the memorial award devoted to a young scientist for her/his significant contribution to the promotion of science in the framework of the INTEGRAL Mission. This research has to show an excellent achievement in the High Energy Astrophysics field.**

**The competition is open to scientists working in worldwide organizations.**

**Specific relevance will be attributed to results that have obtained a diffuse and large application either because innovative or for their impact and citations.**

**The research have to be performed in the period 2018-2019 and published by June 2020. The deadline for application is June 30<sup>th</sup> this year.**

**Application should be sent as for the past edition.**

**The prize will cover all the expenses to participate to the next INTEGRAL Conference in 2020.**

**Further details TBD among supporting partners (IAPS, IKI and ESA).**

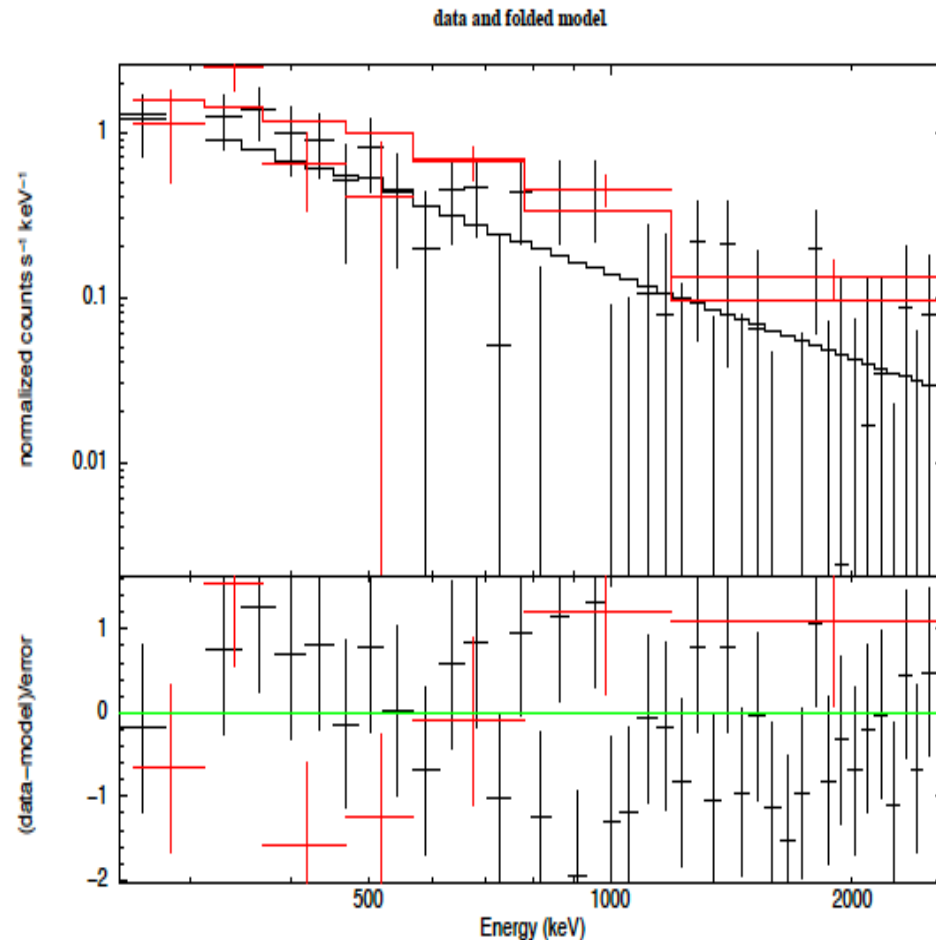
# PICsIT GRB Spectral Production

- IAPS is continuing the off-axis IBIS response to generate the matrices for real time deconvolution of GRB connected with GW detection
- Two different test cases:
  - ✓ GRB from 10-15 deg to 90 deg
  - ✓ GRB from bottom +/- 70-80 degree
- Encouraging results obtained. SW for spectra production available at the IAPS with manual care
- Work in progress, not yet ready to deliver matrices to ISDC.



# PICsIT GRB Spectra:

## 8 energy channels, < 8ms time resolution



- GRB 100625A
- Short  $t_{90} \sim 0.5$  s
- Incident angle =  $42.2^\circ$
  
- GBM:  $\Gamma = 1.36 \pm 0.05$
- PICsIT:  $\Gamma = 1.0 \pm 0.3$
  
- RMF is standard OSA multiples
- ARF is OSA singles + multiples with absorption due to lead from tube
  
- Tested 3 short GRBs so far; need to test more before ready to release routines