

## Investigation of the spectral lag -energy of GRBs registered by INTEGRAL

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We investigated the dependence of spectral lag on energy band based on 28 bright GRBs detected by the SPI and IBIS/ISGRI instruments on the INTEGRAL observatory. It is found that for simple structured bursts or well separated pulses of multi-pulse bursts the spectral lag can be approximated by the relation  $t=A\log(E)$ , where  $A$  is a positive parameter, which correlates with pulse duration. We have not found any negative lag in simple structured bursts or in well separated pulses. While investigating the time profile of the whole burst negative lag may appear due to different spectral parameters of the pulses.

**Auteur:** Prof. POZANENKO, Alexei (Space Research Institute, Moscow)