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find that a simple decrease in the Thompson depth is all that is required to explain the observed change in the low-energy slope (Liang et al. 1997). Further evidence may be provided by recently discovered counterparts to GRB970228, observed with the Italian X-ray satellite BeppoSAX (Costa et al. 1997) and Hubble Space Telescope (Sahu et al. 1997). These counterparts fade at a rate that is consistent with saturated Comptonization. If this is indeed the emission mechanism, these observations place limits on the rate at which the spectral break energy decreases.

Band, D. L. et al. 1993, ApJ, 413, 281 Crider, A., et al. 1997, ApJ, 479, L39 Liang, E., et al. 1997, ApJ, 479, L35 Costa, E. et al. 1997, IAU Circ. No. 6576 Sahu, K. C. et al. 1997, Nature, in press

## IS THE EGRET SOURCE 2EG2020+4026 A GEMINGA-LIKE PULSAR?

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The error box of the EGRET source 2EG2020+4026, inside the  $\gamma$ -Cygni supernova remnant, has been found to contain a point-like X-ray source, denoted

as RX J2020.2+4026. Through optical observations, we consider unlikely the association of the X-ray source with the only coincidental star, a  $m_v \approx 15$  star of type K0V with no signs of coronal activity. The most direct interpretation of the data available is that 2EG2020+4026 is a young pulsar: the  $\gamma$ -ray emission shows no time variability and the spectrum is similar to that of Geminga; there is an X-ray point source inside the error box and SNR, and the  $F_\gamma/F_X$  is higher than in all objects apart from pulsars; and the lack of a credible optical counterpart is also consistent with a  $\gamma$ -ray emitting neutron star.

The proof that 2EG2020+4026 is a pulsar would be the detection of pulsations. We searched for these in a sample of EGRET data corresponding to GCRO observation 203 containing 1129 photons events with E>200 MeV. The search comprise most of the range of timing parameters of known pulsars,  $\nu\lesssim 30$  Hz and  $\dot{\nu}\lesssim 2.2\times 10^{-11}\,\mathrm{Hz}^{-2}$ , and no coherent pulsations of sufficient statistical significance were found after  $3.78\times 10^9$  tries. Its sensitivity was hampered by the high background in the source region and it does not constrain the pulsed fraction of the  $\gamma$ -ray flux. A thorough search requires higher S/N X-ray or  $\gamma$ -ray data.

Brazier K. T. S. et al. 1996, MNRAS, 281, 1033

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