

## TIMING ANALYSIS OF VHE GAMMA-RAYS FROM CEN X-3

A. M. Atoyan (1), K.-M. Aye (2), P. M. Chadwick (2), M. K. Daniel (2), K. Lyons (2), T. J. L. McComb (2), J. M. McKenny (2), S. J. Nolan (2), K. J. Orford (2), J. L. Osborne (2) and S. M. Rayner (2)

(1) McGill University, Physics Department, Montreal, H3A 2T8, Canada.,  
(2) Department of Physics, Science Laboratories, University of Durham,  
Durham, DH1 3LE, UK..

`m.k.daniel@dur.ac.uk`/Fax: +44 191 3747190

A detailed timing analysis of the observations made with the University of Durham Mark 6 imaging atmospheric Cherenkov telescope of the high mass x-ray binary Centaurus X-3 has been performed. Data were taken over a 3 year period. A search for modulation of the  $\gamma$ -ray signal at the pulsar orbital period, as well as for any short-term (few hours) episodes of  $\gamma$ -ray emission with a periodicity near, but not necessarily coincident with, the period of x-ray pulsations. The results are presented in the context of several possible emission scenarios