

COMPTEL Observations of Cygnus X-1

Mark McConnell³

on behalf of the
COMPTEL Collaboration^{1,2,3,4}

¹Max Planck Institut für Extraterrestrische Physik, Garching, FRG

²Laboratory for Space Research Leiden, The Netherlands

³Space Science Center, University of New Hampshire, Durham, NH USA

⁴Space Science Department of ESA, Noordwijk, The Netherlands

During the first year of orbital operations, the COMPTEL experiment on the *Compton Gamma Ray Observatory* has observed Cygnus X-1 on two occasions. This has permitted a measurement of the Cygnus X-1 spectrum at energies above 750 keV (the nominal threshold energy of COMPTEL). The first observation (CGRO observing period 2.0) covered the time interval from May 30 to June 8, 1991. The second observation (CGRO observing period 7.0) covered the time interval from August 8 to August 15, 1991. Although clearly seen in the second of these observations, Cygnus X-1 was less conspicuous in the earlier period, suggesting strong variability in this energy range. Here we shall summarize the results of these observations.