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COMPTEL Observations of X-Ray Binaries. M.L. MCCONNELL, A. CONNORS, D. FORREST, J. RYAN, U. of New Hampshire, W. COLLMAR, R. DIEHL, V. SCHOENFELDER, H. STEINLE, A. STRONG, Max Planck Institute for Extraterrestrial Physics, H. BLOEMEN, R. VAN DIJK, W. HERMSEN, SRON-Leiden, K. BENNETT, C. WINKLER, SSD/ESA. --- Gamma-ray emission from X-ray binary systems extending into the MeV range has been reported in the past, most notably from Cygnus X-1. Radiation at these energies may indicate the presence of nonthermal emission processes (such as particle acceleration), so it is important to investigate this possibility. The COMPTEL experiment on GRO is designed to measure gamma radiation in the 0.75-30.0 MeV energy range and hence is an ideal tool for studying this problem. During its first fifteen months of operation, COMPTEL detected at least two X-ray binaries (Cygnus X-1 and GRO J0422+32). The results from these observations will be reviewed. In addition, upper limits for Cygnus X-3 will be presented.

- Prefer Poster Session
 Prefer Standard Session
 No Preference

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