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MeV Observations of Relativistic Jet Sources with CGRO/COMPTEL for nine Years

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The COMPTEL experiment aboard the Compton Gamma-Ray Observatory (CGRO) explored the MeV sky (0.75 - 30 MeV) for more than 9 years between April 1991 and June 2000, providing many discoveries. Now, more than 18 years after the deorbit of CGRO, the COMPTEL data are still the forefront of our knowledge on the non-thermal soft gamma-ray sky (1 - 30 MeV), because no successor is yet operating.

The COMPTEL source catalogue (Schönfelder et al. 2000) lists 32 steady sources, which raised to more than 40 sources up to now. About half of them are jet sources, mainly blazars (e.g. 3C 273, 3C 279) and some compact binaries (e.g. Cyg X-1, LS 5039). We will summarize the observational status on jet sources at soft MeV energies, with emphasis on compact binary systems. We shall also point out some recent developments in the still ongoing COMPTEL data analysis, like new imaging techniques as well as well as new background reduction techniques being currently pursued, and - finally - discuss their scientific perspectives.

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