

Unbinned likelihood analysis of clusters of galaxies in EGRET data

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Abstract. Efficient electron acceleration may take place in galaxy clusters as suggested by their radio and hard X-ray emission. Bykov et al. (2000) have recently shown that the modelled radio and X-ray emissions are consistent with observations from the Coma cluster. We present here the re-

sults of a new unbinned likelihood analysis of EGRET data designed for the spectral study of extended sources. Results obtained for several clusters such as Coma, Abell 2256, and 2319 will be presented as well as theoretical implications.