

Hardness-intensity correlations in gamma-ray bursts

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Abstract. In recent years much progress has been achieved in understanding the Gamma-Ray Burst phenomenon by means of the prompt observation of GRB afterglows and the identification of some GRB host galaxies. The number of events for which such observations were possible is however still small and does not allow statistical studies, which are instead

possible on large numbers of events, such as the BATSE catalog. I shall show the results of a search for correlations between spectral hardness, intensity, duration and spatial distribution of events. Events with low spectral hardness show evidence of belonging to a different class.