Spectral analyses of X-ray emissions from the loop tops and footpoints of solar flares

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Abstract

The spectroscopic and imaging capability of RHESSI permits us to investigate the temporal and spatial evolution of the x-ray emissions of solar flares in detail. Following previous work (see Battaglia and Benz, A&A, 456, 751, 2006), we compare the spectral evolution of a few x-ray flares observed by RHESSI with theories of electron acceleration. In particular, we wish to test the Grigis-Benz model of soft-hard-soft evolution of the spectral features.

References:

Battaglia and Benz, 2006 : “Relations between concurrent hard X-ray sources in solar flares”, *A&A*, ***456***, 751-760