

A STUDY ON THE HEIGHT OF THE CORONA BRIGHT POINTS ON FeXII RADIANCE MAP

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By registering SOHO/EIT FeXII -19.5 nm coronal images with Kitt Peak magnetograms, D.A.Falconer et al.(1998) found that the brightest features in the network lanes, which they called network coronal bright points, had a highly significant coincidence with magnetic network neutral lines. They found that most bright points sit on neutral lines in the network magnetic flux. We further studied the height information of the bright points on the FeXII radiance map by comparing the individual pattern of the coronal bright points with the distribution of the top segments of the loops from the 3-D magnetic field force-free extrapolated from the photospheric magnetogram. If we assume the source regions of the bright points are all on the top of the loops then the height of bright points of FeXII radiance is between 5Mm-10Mm.