

X-ray bright points observed with HINODE XRT

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X-ray bright points (XBPs) are small scale phenomena detected in soft X-rays everywhere in the quiet Sun. Understanding of their nature is very important because they might contribute the required power to keep the corona at its high temperature. Although the physical processes of these phenomena may turn out to be the same physical processes as big flares, the truth has not yet been known because of the difficulty of fabricating X-ray optics with high angular resolution compared to other wave lengths.

We observed XBPs with the X-Ray Telescope (XRT) aboard the HINODE satellite which was launched in September 2006. XRT has high angular resolution (1 arcsec) and covers wide temperature (ranging from 1 MK up to 20 MK) ever achieved as a grazing-incidence imager for the Sun. Observed fine images suggest XBPs have also loop structures or cusp shapes. We report those results of XBPs observation with HINODE XRT.