

POLAR CORONAL JETS IN THE FAST SOLAR WIND

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We detected ultraviolet counterparts in the extended corona of the hot X-ray jets resolved by Hinode/XRT during the SOHO/Hinode campaigns in 2007. These polar jets observed by the SOHO/UVCS instrument have different characteristics in the acceleration region of the solar wind than the jets identified at the last solar minimum by LASCO, UVCS, and EIT. These observations provide evidence that the X-ray jet material travels throughout the extended corona reaching UVCS heights in the fast solar wind. This work is supported by NASA grants NNX06AG95G and NNX08AQ96G to the Smithsonian Astrophysical Observatory.

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