

Co-Alignment study for EUV imaging spectrometer

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Abstract. EUV imaging spectrometer (EIS) onboard the Hinode spacecraft shows pointing drift on the order of a few arcsec (p-p), which varies as a function of the orbital phase of the satellite. In order to monitor the orbital variation regularly, the team has performed weekly-basis co-alignment measurements since 2007 February. These measurements are limb observations to the north and the east, with about 1.5 hours runtime for each of the limbs by using 266 slot image. Using the limb seen in the CCD frames, we can monitor how the pointing of EIS behaves with time. To monitor the EIS pointing variation of East West/North-South, we used the time series of HeII/SiVII 266 arcsec slot images. We determine the East/North limb position in the Images. With those procedures, we can obtain the time series of the limb position. To monitor the long term variation of the EIS pointing behavior, we apply the same procedure from September 23 2007 to May 21 2008. We also discuss co-alignment between EIS and XRT.