Spectroscopic Observations of Solar Flares with the Hinode EIS

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We review spectroscopic observations of solar flares with the Hinode EUV Imaging Spectrometer (EIS). EIS has been observing two EUV wavelength bands, 17-21 nm and 25-29 nm since Dec 2006. These wavelength bands contain many emission lines that are emitted from hot plasmas with temperatures of the transition region, the corona, and solar flares. A lot of information is indeed included in these emission lines that can simultaneously be observed in EIS observations. We especially introduce results of EIS spectroscopic observations in terms of the hot-plasma generation and flare-plasma dynamics in the impulsive phase with complementary imaging observations.

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