



## **The Flare Temperature Determined By The AIA Imagers On The Solar Dynamics Observatory And RHESSI**

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The Atmospheric Imaging Assembly (AIA) imagers on the recently launched Solar Dynamics Observatory (SDO) provides high spatial resolution ( $\sim 0.6''$ ) and high temporal resolution ( $\sim 10$  s) observations of the solar atmosphere at 10 wavelengths in UV. In flaring regions, the 94 and 193 Å channels are expected to observe peak temperature around 106.85 and 107.25 K which indicates that temperature response diagnostic of this two lines is available for the flare plasma. This facility will therefore bring new insights to the thermal structures and energetics of different regions in the solar atmosphere and corona. We combine measurement from this new instrument with RHESSI hard X-ray observations to study the spatial and temporal evolutions of hot plasma region and hard X-ray sources.