THE HINODE X-RAY TELESCOPE: AN INTRODUCTION AND FIRST RESULTS

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The XRT on Hinode is a high spatio-temporal resolution telescope capable of imaging coronal emission from plasmas with temperatures of 0.7 - 20 MK. The Hinode mission offers the unique opportunity to study the coronal magnetic structures and their reconnection in a wide range of coronal topologies. We will discuss in detail observations of Shibata-type reconnection in coronal hole x-ray jets, slip-run reconnection (or QSL reconnection) in active regions, and x-class flares. We will also discuss the connections between these events and the magnetic field evolution. Access to the data is available to the public as of May 27, 2007. We will provide instructions for retreiving and analyzing the data.