

The Space Solar Telescope

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(On behalf of the SST group)

The Space Solar Telescope (SST) is a Chinese space project, which was first proposed in the mid of 1990s. The main purpose is to observe the basic structures and understand the intrinsic properties of solar magnetic field with a 1m optical telescope equipped with a two-dimensional real-time spectrograph and high-accuracy polarimeter. In addition, through coordinated, wide spectral coverage, highly resolving and continuous observations, it can study the evolution of multi-scale transients and various phenomena in the solar atmosphere, investigate the heating mechanism of the chromosphere and the corona, and study the mechanism of the energy build-up and release in solar flares and CMEs.

Recently, along with the progress of STEREO, Hinode, SDO and other space projects, the scientific objectives and payloads of SST have been updated. In this presentation, we will briefly introduced the updated payloads and relevant progress.