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An Overview of the China Space Station Telescope

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The 2m-aperture China Space Station Telescope (CSST, also known as the Xuntian Space Telescope) is a major science project of China Manned Space Program. With a Cook-type three-mirror anastigmat design, the CSST can achieve superior image quality within a large field of view (FoV). It will be equipped with 5 first-generation instruments including a Survey Camera, a Terahertz Spectrometer, a Multichannel Imager, an Integral Field Spectrograph, and a Cool Planet Imaging Coronagraph. The primary task of the CSST is to carry out a high-resolution large-area multiband imaging and slitless spectroscopy survey covering the wavelength range of 255 nm to 1000 nm. It will take the Survey Camera roughly 7 years of operation accumulated over 10 years of orbital time to image roughly 17,500 square degrees of the sky in NUV, u, g, r, i, z, and y bands and take slitless spectroscopy of the same sky in 3 bands. In this talk, I will give a brief introduction of the project and show recent test results of the instruments.

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