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## \* Lyman-alpha Solar Telescope aboard the ASO-S mission

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The ASO-S mission has three payloads, a Full-disk vector MagnetoGraph (FMG) to measure photospheric magnetic Fields, a Hard X-ray Imager (HXI) to observe non-thermal signals from 30 to 200 keV, and Lyman-alpha Solar Telescope (LST) to take images of the Sun in Lyman-alpha and white light. In this presentation, we focus in the LST payload including the introduction to its three instruments, the current calibration progresses, and early observations and data processing. Particularly, we will discuss the Carrington map of the disk Lyman alpha emission, diagnostics of prominences by combining Lyman alpha and other wavelengths, etc.

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