

Title

The Lazuli Space Telescope and its use for Cosmology

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Abstract

Lazuli is a 3m-class space telescope founded and developed by the Schmidt Sciences as part of the Schmidt Observatory System, with a concept to launch timeline of approximately 3 years. The observatory is equipped with 3 instruments (a slicer integral field spectrograph, a multi-band camera array, and a coronagraph) and is designed to allow rapid response (<4 hours) for transients alerts' target of opportunities. In this presentation, I will review this novel facility and I will illustrate its interest by detailing a potential major cosmology science case, which focuses on using the Integral Field Spectrograph to acquire high precision and high accuracy cosmological parameters from supernova data. This presentation will be the occasion to discuss the unique opportunity offered by the Schmidt Observatory System as a whole for cosmology.

Reference

<https://scixplorer.org/abs/2026arXiv260102556R/abstract>