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SPHEREx Instrument Performance and Early In-Orbit Results

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The Spectro-Photometer for the History of the Universe, Epoch of Reionization, and Ices Explorer (SPHEREx) is a NASA Medium Explorer mission designed to carry out the first all-sky spectral survey in the near-infrared (0.75–5 μm) with spectral resolutions ranging from $R \sim 41$ to 135.

In this talk, we present an overview of SPHEREx's instrument performance, drawing from the first 40 days of in-orbit commissioning and calibration. We will discuss detector behavior, optical performance, spectral calibration, and system stability. In addition, we will share early SPHEREx observations, and we will outline the structure of SPHEREx data products and describe how the community can leverage them for line intensity mapping analyses.

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