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Measure the vertical turbulence profile at Dome A with KLTP

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Seeing measured by DIMM reflects the adverse effect on observations from the total atmospheric turbulence above the instrument. After seeing has been monitored at Dome A for a few years, we plan to measure the vertical turbulence profile, which enables us to understand the observing conditions better and is essential for the development and operation of future adaptive optics instruments. A lunar scintillometer, named Kun-Lun Turbulence Profiler (KLTP), was built and deployed to Dome A in early 2025. Details of the KLTP and preliminary results will be presented.

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