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Pathfinder Experiments for mm-Wave Intensity Mapping

Line intensity mapping (LIM) with emission lines redshifted into millimeter wavelengths is a powerful emerging probe of cosmological parameters and inflationary physics, and significant community interest was expressed in LIM during the Snowmass process. Several upcoming and ongoing experiments, including the SPT-SLIM camera on the South Pole Telescope, are currently performing on-sky demonstrations of new key technologies that will enable future larger-scale surveys. I will discuss the importance of supporting small pathfinder experiments similar to these projects, in order to develop the technologies needed for the next generation of surveys, specifically in the case of LIM.

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Session Classification: Open Session for Remarks and Discussions