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[colloquium] Cosmology from the Moon: two concepts to explore

Thursday, December 2, 2021 2:00 PM (1h 20m)

I will review the prospects for future progress in cosmology. I will give examples of two futuristic experiments. One can obtain the dark ages signature via low frequency radio astronomy on the lunar far side. Attainable angular resolution potentially opens up huge numbers of modes to provide a new and robust probe of inflationary cosmology. A second direction involves a far infrared telescope to search for the elusive deviations from the blackbody spectrum of the cosmic microwave background. This could provide an unprecedented probe of the Universe in its first hundred thousand years. Both concepts could be implemented in future decades via lunar observatories.

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