

Searching for Primordial Gravitational Waves with CMB-S4

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Observations of the temperature anisotropies of the cosmic microwave background radiation have been key to our understanding of the early universe. The cosmic microwave background also contains invaluable information about the early universe that can be revealed through precision observations of the polarization anisotropies. Perhaps most strikingly, measurements of the polarization anisotropies may reveal the imprint of primordial gravitational waves. In this talk I will review the implications of a detection of primordial gravitational waves and will discuss the expected sensitivity for and the status of the next generation ground-based CMB experiment CMB-S4.

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Session Classification: GW Detection