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Abstract for an Invited Paper for the APR15 Meeting of the American Physical Society

The Theory of Inflation

SARAH SHANDERA, The Pennsylvania State University

I will discuss the importance of measurements or improved constraints of primordial tensor modes for theories of the primordial universe. In particular, I will review the implications of the amplitude of the tensor fluctuations for inflation and discuss what an era of B-mode cosmology could teach us about particle physics near the Planck scale.