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Abstract for an Invited Paper for the APR17 Meeting of the American Physical Society

New Frontiers in Cosmology CORA DVORKIN, Harvard University

Observations of the Cosmic Microwave Background and the Large-Scale Structure of the Universe carry immense promise for measurements of new physics beyond the Standard Models of cosmology and particle physics. In this talk, I will explain how we can use these observations to reconstruct the detailed physics of the Universe's earliest epoch, when it was only a tiny fraction of a second old.