

Abstract for an Invited Paper
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Bolometer Array Systems for Detection of the Cosmic Microwave Background

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The next generation of Cosmic Microwave Background (CMB) experiments will open a new window on the universe. By making precision measurements of the CMB polarization on large angular scales, we may see the signature of inflation carried by gravity waves. Through measurements of temperature anisotropy on small angular scales, we can discover distant galaxy clusters, constraining dark energy by providing a measurement of the universe's expansion history. These advances are made possible by new technology. I'll discuss recent advances in detector, readout, and cryogenic technology which are reaching the field now.