

Abstract Submitted
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The Atacama B-mode Search: Status and Prospect AKITO KUSAKA, Princeton University, ABS COLLABORATION — The Atacama B-mode Search (ABS) experiment is a 145 GHz polarimeter designed to measure the B-mode polarization of the Cosmic Microwave Background (CMB) at degree angular scales. In January 2012, ABS has deployed 240 polarimeters employing transition-edge sensor (TES) bolometers. ABS has unique advantages for the measurement of B modes. This includes a continuously rotating half-wave plate that provides fast and clean modulation, as well as systematically clean optics that consist of a cryogenic side-fed Dragone telescope and feedhorn coupled TES polarimeters. In this talk, we will present the status and prospect of ABS.

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