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Invited talk by Julian Borrill (LBNL) on "From Stage 3 to Stage 4 - South Pole Observatory, Simons Observatory and CMB-S4"

Friday, 27 May 2022 10:10 (20 minutes)

Ground-based CMB experiments are evolving from fielding thousands of detectors on telescope(s) of a single size at a single observing site in the last decade (eg. the Atacama Cosmology Telescope, BICEP/Keck, Polarbear/Simons Array, and South Pole Telescope), through tens of thousands of detectors on telescopes of multiple sizes at a single observing site in this decade (the South Pole Observatory and Simons Observatory), culminating in hundreds of thousands of detectors on telescopes of multiple apertures at multiple observing sites in the next decade (CMB-S4). In this talk I will describe the scientific, technical, and organizational drivers and challenges in this evolution.

Session Classification: Future Plans