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The next generation of CMB observation that will realize the neutrino mass measurement and the exploration of super-TeV physics

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We report on our recent research on cosmic microwave background observations (CMB) and development toward future experiments. We pursue new CMB measurements using POLARBEAR/Simons Array and Ground-BIRD experiments. We also conduct research and development for next-generation CMB experiments in the areas of superconducting detectors and their readout, microwave optical elements, and analysis methodologies. In this talk, we will review the achievement and implications of these research by the A04 group in Grant-in-Aid for Scientific Research on Innovation Areas “Exploration of Particle Physics and Cosmology with Neutrinos”.

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