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Exploration of the Physics Beyond the Standard Model with Astrophysical Neutrinos

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In this talk, we will present the recent results from the IceCube collaboration and discuss the exploration of physics beyond the standard model using the cubic-kilometer scale neutrino observatory. The energy range of detection, from GeV to EeV, enables searches and measurements in various areas such as neutrino oscillation, dark matter, neutrino cross-sections, and the production and propagation of astrophysical neutrinos at cosmological distances. Additionally, we will highlight relevant studies on atmospheric neutrino modeling conducted by the A03 group in the Grant-in-Aid for Scientific Research on Innovation Areas “Exploration of Particle Physics and Cosmology with Neutrinos.

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