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Exploration of the Symmetry in Particle Physics with an Accelerator Neutrino Beam

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We report on our recent studies of symmetry in neutrinos using the neutrino beam at J-PARC. We are working on the J-PARC accelerator, the T2K neutrino oscillation experiment, and the NINJA experiment. We study the fundamental symmetry of neutrinos by combining all our efforts to improve the accelerator beam, understand neutrino interactions, and precisely measure neutrino oscillation parameters. In particular, we are focusing on the CP symmetry of neutrinos and how to search for new parameter regions. In this talk, we will review the new results from the J-PARC, T2K, and NINJA achieved by the A02 group in Grant-in-Aid for Scientific Research on Innovation Areas “Exploration of Particle Physics and Cosmology with Neutrinos”.

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