

The plan and status of NEON

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Over the past ten years, several breakthroughs have been made in multi-messenger astronomy. Thanks to the IceCube Neutrino Observatory, the detection of astrophysical neutrinos was proved to be practical. However, due to the limited statistics and field of view, only a few sources have been associated with IceCube neutrinos, making new and larger neutrino telescopes necessary. NEON is a proposed NEutrino Observatory in the Nanhai to be complementary for the global neutrino detectors. This talk presents the detector array's design, layout, and comprehensive performance including angular resolution and point source sensitivities. We further report the current status of simulations and detector construction efforts.

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