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**Prospects for Identifying Luminous Seyfert Galaxies in Current and Future Neutrino Telescopes** ALI KHEIRANDISH, KOHTA MURASE, Pennsylvania State University, SHIGEO KIMURA, Tohoku University — Hot AGN coronae of Seyfert galaxies can accelerate cosmic rays, leading to the production of high-energy neutrinos and soft gamma-rays. Their optically thick environments, hidden in gamma-rays, are the promising environment for the flux of high-energy cosmic neutrinos at medium energies. In this talk, we present the high-energy cosmic neutrinos flux from the luminous nearby Seyfert galaxies based on X-ray observations and evaluate their detectability in current and future neutrino telescopes. We present the scenarios identifiable in the current generation of neutrino telescopes and demonstrate that nearby Seyferts are promising targets for the next generation of neutrino telescopes such as KM3Net and IceCube-Gen2. Moreover, we show that stacking searches are going to have sufficient sensitivity to identify the hidden cores of supermassive black holes as the dominant sources of high-energy neutrino emission at medium energy ranges.

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