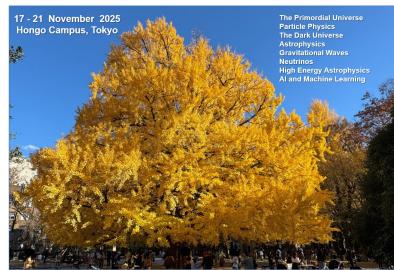


Second International Conference on the Physics of the Two Infinities



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12 Years of Discoveries from the IceCube Neutrino Observatory

vendredi 21 novembre 2025 11:25 (25 minutes)

The IceCube Neutrino Observatory has made milestone observations in neutrino astronomy, multi-messenger astronomy, cosmic-ray physics, and particle physics for over a decade. This talk will cover historic triumphs, including those that started the field of neutrino astronomy, as well as recent highlights such as the observation of the Galactic Plane in neutrinos, the emergence of Seyfert galaxy NGC 1068 as a steady high-energy neutrino source, and competitive neutrino oscillation parameter measurements. The ongoing IceCube Upgrade deploys newly developed detector modules and will increase our understanding of our detector and the properties of the instrumented ice. The effort also leads the way to a future generation neutrino observatory, IceCube-Gen2, with capabilities to answer many questions raised by these discoveries.

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