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IceCube Upgrade and IceCube-Gen2: Neutrino astrophysics at the South Pole

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The IceCube Observatory at the South Pole has detected high energy neutrinos of cosmic origin, including point sources and unresolved Galactic and extragalactic source populations. The extensions to IceCube include the fully funded and under construction low energy, finely segmented extension of the detector (IceCube Upgrade) and a future high energy, high statistics next generation telescope using a mix of optical and radio detectors (Gen2). We will focus on the science impacts of these new detectors along with the hardware and logistics required for their successful construction.

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