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Expanding the neutrino facility at the South Pole: IceCube-Upgrade and IceCube-Gen2

Since its completion in 2011, the IceCube Neutrino Observatory has opened a new window to the extreme Universe. Building on its success in multi-messenger astronomy and particle physics, the collaboration is pursuing two major extensions: the IceCube Upgrade, a low-energy addition under construction to enhance studies of neutrino properties and dark matter; and IceCube-Gen2, which is optimized for high energies and which will advance neutrino astronomy from discovery to precision science. European institutions play a key role in both international projects.

Authors: O'SULLIVAN, Erin; TABOADA, Ignacio (Georgia Institute of Technology); KOWALSKI, Marek (DESY)