

# PHYSICS AND ASTRONOMY COLLOQUIUM

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“Not of this Earth:  
The Advent of Neutrino Astronomy”

Abstract

Scientists have created the world's largest neutrino detector, the IceCube Neutrino Observatory, in Antarctica. This detector is designed to detect high-energy neutrinos from distant galaxies and other cosmic sources. The IceCube Neutrino Observatory is a cubic kilometer of ice, with thousands of sensors embedded throughout. These sensors detect the faint light produced when a neutrino interacts with the ice. The IceCube Neutrino Observatory is the first neutrino detector to be able to detect high-energy neutrinos from distant galaxies and other cosmic sources. This detector is designed to detect high-energy neutrinos from distant galaxies and other cosmic sources. The IceCube Neutrino Observatory is a cubic kilometer of ice, with thousands of sensors embedded throughout. These sensors detect the faint light produced when a neutrino interacts with the ice. The IceCube Neutrino Observatory is the first neutrino detector to be able to detect high-energy neutrinos from distant galaxies and other cosmic sources.