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Recent Results from the IceCube Neutrino Observatory

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The IceCube Neutrino Observatory consists of a cubic kilometer of clear, Antarctic ice instrumented with light-detecting optical modules. These modules detect light produced by charged by-products of neutrino interactions, allowing IceCube to study neutrinos with energies between a few GeV and several PeV. This enables a broad science program, including studies of fundamental neutrino physics; beyond Standard Model physics; and, perhaps most notably, the astrophysical flux of neutrinos. In this last area, IceCube has continued to characterize the flavor and energy composition of the diffuse neutrino flux and recently has identified sources of galactic and extragalactic emission. In this talk, I will highlight recent results from the IceCube Neutrino Observatory, highlighting those results with potential connections between astrophysical neutrinos and high-energy cosmic rays.

Presenter: LAZAR, Jeffrey (Université Catholique de Louvain)

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