

Neutrino astronomy with Ice Cube and beyond

*Prof. Marek Kowalski
Physikalisches Institut, Universität Bonn*

The construction of IceCube, a kilometer-scale neutrino detector at the South Pole, has recently been completed. The detector has an unprecedented sensitive to high energy neutrinos of astrophysical origin. After an introduction I will focus on the first results obtained with IceCube, which include the observation of neutrino events with PeV energies at rates higher than are currently estimated for atmospheric neutrino backgrounds. In the final part of the talk I will discuss the planed extension of IceCube towards lower energies.