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On the astrophysical origin of the IceCube high-energy neutrinos

Abstract

The IceCube neutrino telescope recently opened a window on the high-energy neutrino sky by detecting a flux of astrophysical neutrinos with energies up to few PeV. The sources of those neutrinos are not yet known, although a few cosmic accelerators are currently considered as plausible candidates. I will discuss the expected emission of high-energy neutrinos from extra-galactic astrophysical sources as well as our chances to unveil the physics of the cosmic accelerators by employing neutrinos and their photon counterparts.

December 20, 2016 - 5:00 pm
LNGS - "B. Pontecorvo" room