

PHYSICAL COLLOQUIUM

INVITATION

Monday, 24.06.2019, 4.15 p.m., W2-1-148

speaks

Ass.-Prof. Markus Ahlers

Niels Bohr Institute (NBI), University of Copenhagen

about

“Neutrino Sources in Light of Recent IceCube Results”

The field of high-energy neutrino astronomy is undergoing a rapid evolution. In 2013, the IceCube Observatory at the South Pole reported first evidence of a diffuse flux of astrophysical neutrinos in the TeV-PeV energy range. While the flux is by now observed with high significance, its astrophysical origin is still unknown. Only recently, IceCube was able to report first compelling evidence of neutrino emission from a gamma-ray blazar. The current lack of firmly detected neutrino point sources indicates that the observed neutrino flux is dominated by relatively weak sources. Most likely, the neutrino sky is complex and several source classes contribute. I will summarize the status of these neutrino observations and highlight the strong role of multi-messenger astronomy for their interpretation.

All interested persons are cordially invited.

Sgd. Prof. Dr. Jutta Kunz