



Contribution ID: 59

Type: **not specified**

Probing anisotropies in arrival directions of astrophysical neutrinos

Wednesday, 13 April 2016 10:40 (40 minutes)

The origin of the flux of TeV-PeV neutrinos observed with IceCube is still a mystery. Various scenarios have been considered, ranging from conventional Galactic or extragalactic sources to exotic production mechanisms like PeV dark matter decay. One possibility to distinguish these models is via their distinctive anisotropy patterns in the arrival direction of neutrinos. So far, the data do not show strong signs of anisotropy, consistent with a diffuse neutrino background. However, this signal might be just hidden by the limited event statistics and angular resolution. I will review the status of anisotropy studies of IceCube data and the resulting limits on neutrino emission scenarios.

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Session Classification: Morning session (2)