Contribution ID: **34** Type: **not specified**

Neutrino fluxes from the Galactic plane and the ANTARES limits

Tuesday, 15 September 2015 14:20 (20 minutes)

The existence of cosmic neutrinos has been reported by the IceCube Collaboration. Though this measurement is consistent with an isotropic neutrino flux, a sub-dominant galactic component coming from extended region such as the Galactic Plane/Ridge cannot be excluded.

The ANTARES detector, located in the Mediterranean Sea, is currently the largest and longest operated underwater neutrino telescope; its effective area and good exposure to the Southern Sky allow to constrain an enhanced muon neutrino emission from extended sources such as the Galactic Plane. ANTARES data from 2007 to 2013 have been analysed and upper limits on the neutrino production from the central region of our galaxy have been set.

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Session Classification: Parallel Session D