



Contribution ID: 189

Type: Poster

## Search for spatial correlation between IceCube Neutrinos and Radio pulsars

The study aimed to examine the connection between radio pulsars and ultra-high energy neutrinos using the IceCube catalog of point source neutrino events. For this purpose we use the *unbinned maximum likelihood* method to search for a statistically significant excess from each of the pulsars in the ATNF catalog. Next, we performed a *Stacked search* to further *enhance signal to noise ratio* for a better validation of correlation between Neutrinos and Radio Pulsars.

### Email

ep20btech11015@iith.ac.in

### Affiliation

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

**Author:** Mr PASUMARTI, VIBHAVASU (INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD)

**Presenter:** Mr PASUMARTI, VIBHAVASU (INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD)

**Session Classification:** Astrophysical Relativity

**Track Classification:** Astrophysical Relativity