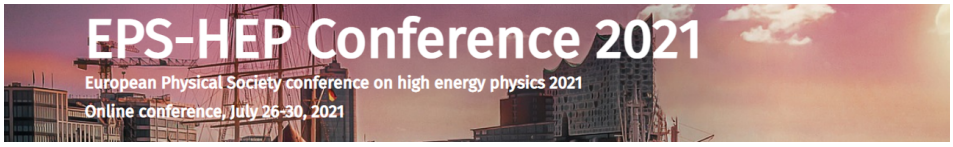

Contribution ID: **1001** Type: **Parallel session talk**

Probing Dark Matter Models with Upcoming Neutrino Telescopes

Thursday 29 July 2021 10:30 (20 minutes)

Next generation of neutrino telescopes currently under construction are drastically improving their ability to constrain the annihilation cross-section of dark matter. In this talk after introducing an angular power spectrum analysis method for future sensitivity of a KM3NeT-like neutrino telescope, we will discuss the implications of results on the various particle dark matter models. Particular attention will be made on the assessment of limits complementing the current direct dark matter detection and gamma ray searches. We will emphasise that future neutrino telescopes will be able to competitively probe significant portions of parameter space and therefore will provide critical complementary information on the dark matter searches.

Collaboration / Activity

DM Phenomenology

First author

Email

Primary authors: BASEGMEZ DU PREE, Suzan (Nikhef); ARINA, Chiara; CHEEK, Andrew; DEKKER, Ariane; CHIANESE, Marco; ANDO, Shin'ichiro

Presenter: BASEGMEZ DU PREE, Suzan (Nikhef)

Session Classification: T04: Neutrino Physics

Track Classification: Neutrino Physics