



Contribution ID : 236

Type : **Oral talk**

Direct detection of Dark matter and neutrino fog

Wednesday, 23 October 2024 18:12 (12)

Despite the overwhelming indirect evidence, the nature of dark matter is still a mystery. This talk will overview the experimental efforts to detect Dark Matter directly, highlighting the latest findings from relevant experiments. Additionally, we will explore emerging technologies aimed at detecting very light Dark Matter candidates. This talk will also discuss the neutrino floor and its implications for future dark matter searches.

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Session Classification : Astroparticle

Track Classification : Astroparticle physics