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## **COSINUS projections for the cross-check of DAMA/LIBRA results**

*Tuesday 19 July 2022 19:00 (1 hour)*

COSINUS is devoted to the study of the nature of the signal detected by the DAMA/LIBRA experiment and aims to definitely establish if the observed annually modulated signal is or is not a dark matter signature. The benefit of the technique employed by COSINUS, which develops cryogenic scintillating calorimeters with NaI-absorbers equipped with TES thermometers, consists in the event-by-event discrimination of electron/gamma events and nuclear recoils. The recent results, obtained with the new NaI-remoTES prototype, show the potentialities of this technique. In this contribution, we present updated COSINUS projections for the dark matter search in different scenarios, compared to the latest results of DAMA/LIBRA, and we explain the additional contribution of COSINUS to the cross-check campaign of DAMA/LIBRA with respect to NaI-based scintillators at room-temperature.

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