

31st International Symposium on Lepton Photon Interactions at High Energies



Contribution ID: 69

Type: **Talk**

Resolving the DAMA Debate: Dark Matter Search using NaI(Tl) detectors beyond DAMA

Wednesday 19 July 2023 09:00 (15 minutes)

The DAMA collaboration's claim of detecting dark matter in the early 2000s remained a long-standing anomaly, and subsequent hypotheses were disproven using different targets. More recently, the COSINE and ANAIS collaboration utilized the same NaI(Tl) target and found that dark matter was not the source of the annual modulation observed by the DAMA collaboration. This presentation will provide an overview of the current status of the COSINE experiment, as well as the latest advancements in NaI(Tl) research for dark matter search beyond the DAMA era.

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Session Classification: Dark Matter

Track Classification: Dark Matter