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Low mass Dark Matter prospects with LiF defects

Wednesday, April 15, 2026 1:45 PM (30 minutes)

Color centers in lithium fluoride (LiF) crystals provide a promising approach for detecting sub-GeV dark matter via low-energy excitations. We present new results on the formation of relevant defect centers in LiF, together with advances in their treatment and characterization. We study the response of these centers to different interaction channels, including electronic and nuclear recoils, and discuss operational aspects relevant for low-threshold detection.

Do you plan to give the talk in person?

Yes

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