

# Light dark matter: wimpier than the WIMP

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We know dark matter exists and we have been trying to directly detect it for almost 40 years. Experiments searching for the heavily-favored candidate, the GeV-scale WIMP, have thus far yielded null results. Recently, the field has pushed towards a new class of “hidden sector” particles, with masses below the proton. To observe this type of “light” dark matter, new, extremely sensitive technologies that generate measurable electronic-recoil signals are required. In this talk, we will report on efforts using semiconductor devices to discover dark matter at various underground laboratories.

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