

Probing light dark matter in direct detection and neutrino experiments

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Detecting light dark matter is a frontier challenge requiring a blend of conventional and cutting-edge approaches. Direct detection with low-threshold nuclear or electron recoil detectors, quantum-enhanced sensors, and searches for annihilation or production signatures offer promising avenues. Combining these methods and refining background discrimination will be crucial to uncovering the nature of light dark matter, potentially revealing a key piece of the universe's mysterious composition. I will talk about our recent works on these topics.

Primary author: WU, Lei (南京师范大学)

Presenter: WU, Lei (南京师范大学)

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