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New Approaches for Detecting Light Dark Matter

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Direct detection of dark matter is essential for understanding its particle nature and properties in the late universe. However, traditional methods designed to target WIMPs face significant challenges in probing sub-GeV dark matter masses. These difficulties highlight the need for developing new techniques to effectively detect light dark matter. In this talk, I will first provide an overview of the current status of the field, followed by recent works in new approaches aimed at exploring the previously inaccessible parameter space.

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