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Probing Light Dark Matter

Thursday 11 January 2018 16:30 (30 minutes)

Probing light dark matter via direct detection is impeded by the low energy carried by light dark matter particles. I will present ways that can bypass the kinematic limitations thus enabling direct detection experiments to probe dark matter candidates in the sub-GeV region using certain inelastic channels, as well as dark matter particles that have been accelerated to high momenta after reflecting off nuclei in the Sun. The talk will be based on the following papers:
1.Phys.Rev.Lett. 118 (2017) no.3, 031803
2.JCAP 1710 (2017) no.10, 031
3.Phys.Rev. D96 (2017) no.1, 015018

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