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Distinguishing Dark Matter in Direct Detection

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A new generation of Direct Detection Experiments are now running, and with an ever increasing number of Dark Matter particle models, it is important to interpret new data agnostically. The Non-Relativistic Effective Field Theory approach is particularly well suited to this task, and encapsulates behaviour of elastic scattering in DD Experiments in a very general way.

In this talk I will look at recent efforts to distinguish just how much information about the particle nature of DM we can glean from DD experiments.

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