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Effects of Residue Background Events in Direct Detection Experiments on Determining Properties of Halo Dark Matter

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We reexamine the model-independent data analysis methods for extracting properties of Weakly Interacting Massive Particles (WIMPs) using data (measured recoil energies) from direct Dark Matter detection experiments directly and, as a more realistic study, consider small fractions of residue background events, which pass all discrimination criteria and then mix with other real WIMP-induced signals in data sets. In this talk, the effects on the determination of the mass of halo Dark Matter particles as well as on the reconstruction of their velocity distribution will be discussed.

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