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Title: "Hot on the tail of the elusive WIMP: Direct detection dark matter searches enter the 21st century"

Abstract:

It is now well established and accepted that roughly 25% of the total mass-energy density of the Universe is in the form of non-relativistic particles. That these particles, referred to as Dark Matter, have remained a mystery has served as motivation for the design and implementation of increasingly ingenious and far reaching experiments in an attempt to identify and understand them. This talk will review various ongoing Dark Matter searches and the variety of techniques and implementation used to both detect the rare Dark Matter interactions as well as reject the vast number of background events, with focus given to the recent results obtained in this past year. Nine years into the 21st century, the field Dark Matter searches is very active, with many new experimental results, and some intriguing hints.