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Direct Dark Matter Searches: Status and Implications

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Direct dark matter searches look for the scattering of dark matter particles from the galactic halo off nuclei in laboratory detectors. A host of apparently contradictory experimental results have been accumulated over the past few years: unexplained events in excess of the expected background, annual modulations with the predicted characteristics of a dark matter signal, upper limits stronger than the possible detections. In this overview, I will present a theorist's perspective on the present-day situation, indicating current trends on the experimental and theoretical scenes.

Summary

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