

Dark Matter Theory Confronts the Data

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Abstract: The current period has seen an explosion of new ideas on dark matter, and new data from many sources to constrain them. We will review the reach of current experiments, both in direct and indirect detection avenues, and discuss what the constraints are on "generic" WIMPs. We will then consider the various anomalies that have been claimed as evidence of dark matter, the conflicts between those results, and discuss what kinds of new - and often unconventional - models they would be directing us to. Finally, we will discuss the near-term experiment prospects to understand whether anyone has yet seen a WIMP.

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Not available.