

Searching for Dark Matter

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Abstract:

While dark matter is five times more abundant than regular matter, we do not yet understand its fundamental nature. This is not for lack of trying. In this talk I will review and discuss the various ways in which scientists are trying to elucidate the properties of dark matter. This includes efforts in direct detection, indirect detection, collider experiments and more. I will also introduce the statistical methodology behind these (and other) experiments, that allow us to make robust claims based on the observed data.