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## WIMP direct detection experiments

*Thursday, 6 July 2023 09:00 (45 minutes)*

Direct dark matter detection experiments aim to observe interactions between dark matter particles and ordinary matter, in order to identify and study this elusive substance that makes up a significant fraction of the mass of the Universe.

Weakly interacting massive particles (WIMPs) are among the most popular dark matter candidates. In this talk, we will discuss the current status of direct detection experiments searching for WIMP dark matter and the different detection methods that have been used.

We will also discuss experimental challenges and explore future opportunities in direct WIMP detection, which may enable even more sensitive and precise measurements in the coming years.

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