

# Using Underground Nuclear Accelerators in the Quest for Dark Matter

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The existence of dark matter is ubiquitous in cosmological data and its distribution has been mapped across many galaxies. From these observations, it must be some type of particle beyond the Standard Model. Yet, numerous underground particle detectors on Earth have been thoroughly looking for dark matter without any success. The null results call for bigger and more sensitive detectors, but this comes at an expensive price. Instead, I attempt at leveraging the finest tools present in these underground laboratories to hopefully achieve a successful detection. Here I will discuss how nuclear accelerators, such as LUNA in Gran Sasso, could provide just what we need to detect dark matter.

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## **Please select: Experiment or Theory**

Theory

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