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Dark Matter in the light of no signals

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The evidence for the existence of non-baryonic dark matter is overwhelming, coming from many different scales. However, there are still no positive signals. Indeed, the upper limits from direct detection have improved by several orders of magnitude in the last decades. In this talk, we will discuss several novel directions in WIMP model-building. We will analyse different scenarios (complex dark sectors, pseudo-Nambu Goldstone bosons, sterile neutrinos...) which obey current direct detection limits and may yield distinctive signals in the future.

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