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Novel signatures of pseudo-Goldstone dark matter

Thursday, June 3, 2021 3:48 PM (6 minutes)

In my talk and poster, I will motivate dark matter from composite Higgs models. In this framework, the dark matter candidate is a pseudo-Nambu Goldstone boson (pNGB) of a spontaneously broken symmetry, that lies naturally at the electroweak scale. In non-minimal scenarios, other pNGBs arise which can be lighter than the dark matter candidate and therefore affect its phenomenology significantly (a possibility which has been often disregarded in the literature). I will motivate this scenario in concrete composite Higgs models and discuss the emerging signatures at direct and indirect detection experiments. I will finally present the complementarity between these and future collider probes.

arXiv number (if applicable)

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