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Luca Visinelli (Stockholm University and Nordita): Axions in cosmology and astrophysics

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The axion is a well-motivated hypothetical particle which candidates to constitute the observed cold dark matter budget. In this talk, I first revise the properties of the axion in light of current bounds from astrophysics and cosmology, and give some prospects for future searches. I then discuss some mechanisms to relax such bounds. I conclude by presenting a possible detection challenge, namely axion stars.

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