

## From QCD to cosmology: theta dependence, axions and dark matter

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In this talk I will discuss the connections between some nonperturbative features of the QCD vacuum and a possible dark matter candidate, the axion. While these relations are known since early '80s, only recently it was possible to start investigating these matters in a systematic way by using Lattice QCD simulations. I will discuss why these studies are particularly challenging from the numerical point of view and I will review the present status of this research field.

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**Classifica Sessioni:** Talks on specific topics