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Axion domain walls and thermal friction. Amedeo Maria Favitta

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Cosmological models with QCD axions and/or ALPs can be affected by a domain wall (DW) problem. We review and propose solutions, beyond proposing a biased axion potential, taking into account thermal plasma friction: we evaluate the plasma pressure acting on a DW with velocity v taking into account the relevant particle processes, deriving and studying the relative VOS model and obtaining relative bounds and cosmological BSM observables under such hypotheses.

Classification de Session: Students presentations