

Axion dark matter: constraints from cosmological observations

Wednesday, 25 June 2014 15:00 (1 hour)

The nature of dark matter is one of the most puzzling open problems of cosmology and particle physics. Axions and axion-like particles (ALPs), like the majoron, are plausible candidates for the role of dark matter. In my talk I will review the constraints that can be put on the properties of axions from the most recent observations of the temperature and polarization anisotropies of the cosmic microwave background, in conjunction with the measurements of baryon acoustic oscillations and other cosmological data.

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