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The Quest for the Axion

Thursday, March 14, 2024 9:00 AM (1 hour)

We review the motivation for the axion as a solution of the strong CP puzzle. We discuss benchmark axion models and present their predictions concerning (i) axion couplings to the Standard Model and (ii) axion dark matter abundance.

We give an overview on the discovery potential of current and planned axion experiments, reaching from direct production and detection of axions in the laboratory, over searches for solar axions, to axion dark matter direct detection.

Presenter: RINGWALD, Andreas (DESY)

Session Classification: Plenary Meeting