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Structure Formation Simulations with Axion Dark Matter

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Nonlinear structure formation with axion dark matter can be studied with cosmological simulations using different initial conditions (in the case of axion minicluster formation) and/or new computational methods to capture wave-like phenomena close to the de Broglie wavelength (in the case of ultralight axions). Some approaches for such simulations will be described and first results presented.

Primary author: Prof. NIEMEYER, Jens (University of Goettingen)

Presenter: Prof. NIEMEYER, Jens (University of Goettingen)

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