

Small scales, big differences: nonlinear structures beyond cold dark matter

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The cold dark matter (CDM) paradigm of gravitational structure formation faces its strongest challenges on small, nonlinear scales where deviations from interactions, initial conditions, or bosonic effects can become pronounced. At the same time, the growing importance of baryons makes a clear identification of beyond-CDM phenomena difficult. I will present a short overview of the existing hints for possible bCDM physics and upcoming opportunities for probing the small-scale structure of dark matter.

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