

Probing the primordial power spectrum on small scales with dark matter subhalos

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I will discuss the role dark matter subhalos may play in unveiling or constraining both the nature of dark matter and the properties of the primordial power spectrum on small scales. This is a topic in which semi-analytical predictions can be made without resorting to cosmological simulations, in the regime where dark matter subhalos are too light to accrete baryons, as expected in the cold dark matter scenario. I will discuss a few examples of how subhalos may manifest themselves through different local or distant probes.

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