

# Small-Scale Structure and Interacting Dark Matter and Radiation

*Friday, 29 July 2016 14:30 (15 minutes)*

I will review attempts to address the small-scale problems of Lambda-CDM using a combination of dark matter self-interactions and dark matter interactions with a dark radiation-like species. We will see that most models are rather tightly constrained. New results outlining the role of non-perturbative corrections to these interactions will be presented.

## Summary

I will review attempts to address the small-scale problems of Lambda-CDM using a combination of dark matter self-interactions and dark matter interactions with a dark radiation-like species. We will see that most models are rather tightly constrained. New results outlining the role of non-perturbative corrections to these interactions will be presented.

## Based on (arXiv number)

1310.6337, 1404.6127, and forthcoming

**Primary author:** DASGUPTA, Basudeb (Tata Institute of Fundamental Research, Mumbai)

**Presenter:** DASGUPTA, Basudeb (Tata Institute of Fundamental Research, Mumbai)

**Track Classification:** Alternatives to LambdaCDM Cosmology