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Dark Matter and Structure Formation in the Universe

Monday, 27 August 2018 15:00 (30 minutes)

The cosmological model dominated by dark matter and dark energy has proven to be very successful in explaining the structure formation on large scales (>~1Mpc). There are so-called 'small-scale problems'of the Lambda-CDM model, however, many of them can be solved by astrophysical effects of baryons and feedback. I will review some of these issues, and discuss the current efforts in taking the next step in galaxy formation research using cosmological hydrodynamic simulations.

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