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Rotation Curves of Galaxies at High Redshift

Abstract

Rotation curves of galaxies provide the most reliable methods for extracting information about dark matter halos from observations. Dark matter simulations provide predictions about the evolution of dark matter halos over time. We will discuss rotation curve analysis of a large sample (~100) of high–redshift galaxies. We will also discuss how these results compare with the Magneticum simulations using simulated galaxies at different redshifts.