



Numerical influences on galaxy formation

T. Kaufmann

Institute for Theoretical Physics, University of Zürich

We examine a wide range of different influences on galaxy formation in N-Body + SPH simulations up to unprecendeted resolution. We mainly find in isolated halo also in merger simulations that bar instabilities are ubiquitous if the force resolution is high enough. We also describe (artificial) angular momentum transport between the different SPH phases and state that resolution higher than usually used is needed to follow the disk evolution more or less accurate.

BDMH 2004 – Baryons in Dark Matter Halos 5–9 October 2004 Novigrad (Croatia)

Published by SISSA