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UCHUU - A new high-resolution cosmological N-body simulation

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In this talk, I will present a new high-resolution N-body simulation called Uchuu. It consists in a cosmological box size $2\text{Gpc}/h$, and 12400^3 particles. The mass resolution is $2 \times 10^8 \text{ Msun}/h$, and it has been produced with the latest Planck cosmological parameters. Rockstar halos catalogues, merger trees, lensing lighthcones up to $z=7$ and semi-analytical galaxies are being produced. The first Data Release is expected April, 2019. This simulation could be useful to prepare the Euclid deep field observations, or other high redshift surveys.

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