

3D Radiation-SPH Simulation on Galaxy Formation

Cosmic History

Big Bang

Cosmic Recombination

0.1Myr

10-44 sec

Formation of Dwarf Galaxies is simulated in UV background radiation with HMCS

Baryonic gas falls into dark matter potential to form filamentary structures. After the universe is reionized, metagalactic ultraviolet irradiates the filamentary clouds. The bulk of gas is evaporated due to heating by ultraviolet, leaving small galaxies.

All Components







