

Galaxy activity in Semi-Analytical Models

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Povzetek predavanja (v angleščini):

The modeling of AGN feedback is of fundamental importance in order to understand the complex interplay between the various physical mechanisms shaping the observed properties of galactic populations and the evolution of their stellar masses and star formation rates. In particular, in the current theoretical paradigm of galaxy formation, AGN feedback plays a crucial role in regulating the levels of activity in galaxies, including the onset of cooling flows and star formation, as well as the triggering of galactic winds leading to the removal of the gas from the host galaxy. Only in recent years, however, the detailed study of the dependence of galaxy activity on stellar mass, parent halo mass and hierarchy (i.e. centrals or satellites) has been made possible thanks to the availability of large samples of z