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Origin of the first stars, galaxies and massive black holes (Umberto Maio)

Tuesday, 10 September 2019 16:45 (18 minutes)

Results from numerical simulations including non-equilibrium chemistry, stellar evolution, metal spreading and raditive transfer will be discussed in order to shed light on the primordial cosmological epochs. Simulation results will be compared against observational data and employed to study the formation of the first galaxies, investigate their impact on high-z dumped Lyalpha gas and GRB hosts, constrain the role of molecules and metals, address the effects of different assumptions for the initial mass function and explore the formation path of early massive black holes.

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Track Classification: Early Black Hole Formation