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Modelling baryons for cosmological inferences

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Optimal exploitation of future cosmic probes will rely on a detailed understanding of the connection between dark and visible matter in the universe. In this talk I will discuss several physical approaches to model these connections. By combining with suites of gravity-only simulations, this framework delivers predictions for the observed properties of galaxies and gas as a function of cosmological parameters, which will enable high-precision cosmological inferences.

Presenter: ANGULO, Raul