

# MODELS OF THE COSMOS: HYPOTHESIS, CONSTRAINTS AND OPEN POSSIBILITIES

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Cosmology has now established a reference model that allows to reproduce most observational data at the expense of introducing a dark sector. This has motivated the investigation of the robustness of the hypothesis of this standard model. In this talk, I will summarize the main hypothesis and describe how they can be tested. This will characterize the robustness and weakness of our cosmological model, as well as the freedom to extend it.