

International Workshop on: Simulating gravitation and cosmology in
condensed matter and optical systems



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Cosmology, theory vs. observations: an overview and some ideas

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In this talk I will review the present status of the standard theoretical framework of cosmology and how it confronts observations, paying particular attention to the Early Universe physics (inflation models) and its observational probes (power-spectrum, non-Gaussian features, etc), possible connections between dark matter, dark energy and potential modifications of gravity, also accounting for cosmological gravitational-wave signals and their propagation.

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