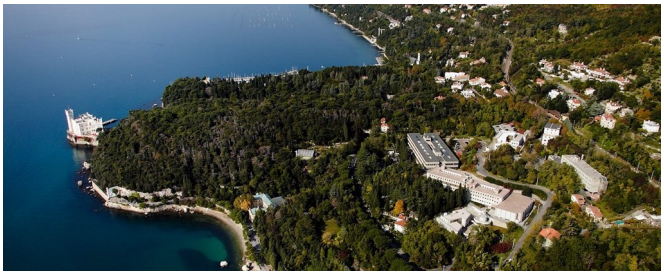

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Dark Gravity confronted with Supernovae, Baryonic Oscillations and Cosmic Microwave Background data

Tuesday 29 August 2023 22:05 (5 minutes)

Dark Gravity (DG) is a background dependent bimetric and semi-classical extension of General Relativity with an anti-gravitational sector. The foundations of the theory are reviewed. The main theoretical achievement of DG is the avoidance of any singularities (both black hole horizon and cosmic initial singularity) and an ideal framework to understand the cancellation of vacuum energy contributions to gravity and solve the old cosmological constant problem. The main testable predictions of DG against GR are on large scales as it provides an acceleration mechanism alternative to the cosmological constant. The detailed confrontation of the theory with SN-Cepheids, CMB and BAO data is presented. The Dark Gravity theory is constantly evolving and the latest version of its living review is accessible at www.darksideofgravity.com/DG.pdf

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Session Classification: Posters of tuesday (ignore time)