Canadian Association of Physicists
Association canadienne des physiciens et physiciennes

Contribution ID: **3345** Type: **Oral (Non-Student) / Orale (non-étudiant(e))**

Structural Aspects of Quasi-Topological Gravity

Thursday, 9 June 2022 11:15 (15 minutes)

Generalized quasi-topological gravities are higher-curvature extensions of general relativity with the defining property that the field equations of the theory remain second-order when restricted to certain metrics of interest. In this talk, I will discuss recent work classifying the structural aspects of these theories, proving their existence at arbitrary orders and dimensions, and counting the number of such theories. I will also discuss interesting universal aspects of the thermodynamics of black holes in these theories.

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Session Classification: R2-2 Frontiers in Theoretical Physics II (DTP) | Frontières en physique théorique II (DPT)

Track Classification: Technical Sessions / Sessions techniques: Theoretical Physics / Physique théorique (DTP-DPT)