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Asymptotic Safety Landscapes at the intersection between Positivity Bounds and Swampland Conjectures

Friday 27 September 2024 09:00 (40 minutes)

I will review recent progress in computing and analyzing the "landscape" of effective field theories stemming from an asymptotically safe ultraviolet completion of gravity. I will argue that this is an essential task in asymptotic safety, as well as in other approaches to quantum gravity, to test their consistency and to facilitate the comparison between their predictions. Concretely, I will focus on purely gravitational and gravity-photon systems, and I will discuss the intersections between the resulting asymptotic safety landscape, the string landscape identified by (some) swampland constraints, and positivity bounds.

Presenter: PLATANIA, Alessia