

Cosmological spacetime solutions of Finsler gravity equation

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joint work with Nicoleta Voicu¹, Annamária Friedl-Szász¹, Christian Pfeifer¹², Sjors Heefer³

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We find a family of cosmological spacetime solutions to Finsler gravity equation with cosmological symmetry and a viable spacetime structure; these solutions belong to the class of Landsberg but not Berwald Finsler structures, also known as unicorns. Additionally, we study the behavior of the 1-particle distribution function in terms the value of the curvature of the spatial slices.