



Contribution ID : 126

Type : **Oral talk**

## **Compactification scenario in Gauss-Bonnet gravity**

*Wednesday, 30 November 2022 11:45 (15)*

A successful compactification scenario should explain two, in principle, rather different properties of the multi-dimensional space-time. First, we need to show why the evolution of three big dimension is different from the evolution of other dimensions. Second, we need to explain why the 3-dimension subspace is almost isotropic one. We present a scenario which address both issues. Starting from rather general totally anisotropic initial condition the evolution of a Universe naturally leads to a product of two isotropic subspaces. This presentation is a brief summary of a set of papers made in collaboration with A.Giakomini, S.Pavluchenko and D. Chirkov.

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**Session Classification** : Gravitation and Cosmology

**Track Classification** : Gravitation and cosmology