

Examples of stable exponential cosmological solutions with three factor spaces in EGB model with a Λ -term

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We consider a D -dimensional gravitational model with a Gauss-Bonnet term and the cosmological term Λ . We restrict the metrics to diagonal cosmological ones and find for certain Λ a certain examples of solutions with exponential time dependence of three scale factors, governed by three non-coinciding Hubble-like parameters. We prove the stability of these solutions in a class of cosmological solutions with diagonal metrics. A solution describing an exponential expansion of $3d$ subspace with Hubble parameter H and small enough variation of the effective gravitational constant G is singled out.

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