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Dynamics of sub-spaces at high energies

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The dynamics of a space endowed by a metric of the 3-dimensional sphere in the framework of $f(R)$ -gravity acting in $D=4$ from the creation at high energies is studied. Spaces of finite size are found as a result of exact solution of the classical equations of motion. The influence of the parameter values and initial conditions on the behavior of the solution is discussed. Generalization of the theory to other dimensions are also considered. The main objective is to find conditions which lead to the large size of main space and small size of an extra dimensions.

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