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Validity of the separate universe approach in the scalar-tensor theories of gravity

The separate universe approach is the one of the important tools for study primordial cosmological perturbations on large scales. Since it is constructed without using of any particular theories of gravity, it is expected to valid for any covariant theories of gravity. However, recently, there is a study showing that it is valid only for some theories of gravity. In our research, we have found that this approach is valid for most forms of the scalar-tensor theory of gravity.

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