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Cosmological implications of vector Galileons

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Do you want to work with a really physical theory? Then your theory must be free of any kind of instability or pathology. Therefore you must, at least, work with a Galileon action. Galileons are scalar fields in a curved background whose action is built so that the field equations are second-order and the number of propagating degrees of freedom is the right one. We have built recently the vector Galileons (Galileons as vector fields) with and without gauge symmetries. The phenomenology is this case is much richer than in the scalar case and our purpose in this talk is to show our most recent advances on the cosmological implications of the vector Galileon actions.

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