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Dark energy from SO(3) and SU(2) representations of the Yang-Mills-Scalar theory.

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In this work we study the cosmological implications of a Yang-Mills-Scalar theory in the SO(3) and SU (2) representations in expanding Friedmann-Lemaître-Robertson-Walker universe. First, we show that not all configurations of the fields are compatible with an isotropic space-time as it is claiming in literature and then, after choosing carefully a particular configuration of the fields, we use the dynamical systems technique to study the cosmological implications of the models, in particular we show that it is possible to describe the late time evolution of the universe.

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