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Extended FLRW models, non-Abelian gauge fields and the weak cosmological principle

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In this work, we shall construct a little forgotten subset of the Bianchi models: the extended Friedmann-Lema\^itre-Robertson-Walker (FLRW) models, defined as cosmological models with underlying anisotropic Bianchi geometry that nevertheless expand isotropically and can be mapped onto a reference FLRW model with the same expansion history. In order to establish the stability and naturalness of such models, we consider the dynamics of non-Abelian gauge fields attached to an imperfect fluid that possesses anisotropic stresses. As a result, we expect to obtain a generalisation of the case that involves just Abelian gauge fields.

Nivel de formación

Maestría

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