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Automorphism in Bianchi Type Cosmologies

The automorphisms of the various Bianchi-type Lie algebras are seen to arise from particular g.c.t.'s of the base manifold. They can be used as Lie-point symmetries of the corresponding Einstein field equations, entailing a reduction of their order and ultimately leading to the entire solution space. The example of the Kasner-like (spatially flat) 4+1 geometry is presented.

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