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Rotating Inflation

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We study Bianchi cosmologies coupled to a matter source that has the field theoretical description of a solid. Models

of solid inflation are known for not being very efficient in diluting away anisotropy. While confirming this fact, our study finds another potential feature of Solid inflation, namely a “rotation” of the principal axes of the expansion.

Such a rotation is not just a gauge artifact as in the case of Bianchi models alone or coupled to homogeneous scalar fields. Due to the anisotropic stress generated by the solid, rotation becomes a real dynamical quantity.

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