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The Bianchi-V spacetime with viscous matter and evolving gravitational and cosmological ‘constants’

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In this presentation, we discuss the cosmological solutions of the Bianchi type-V spacetime filled with bulk viscous fluid and evolving cosmological Λ and Newtonian G parameters. We show that the model describes a universe that starts off with a negative cosmological term, dominated by non-relativistic matter and decelerated, that eventually becomes dark energy-dominated and hence expanding with acceleration, in concordance with current observations. Ongoing work in this direction will also be briefly discussed.

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