

Abstract Submitted
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Non-singular cosmological dynamics in Bianchi models of Loop Quantum Cosmology¹ KEVIN VANDERSLOOT, Penn State, ABHAY ASHTEKAR COLLABORATION, PARAMPREET SINGH COLLABORATION, TOMASZ PAWLOWSKI COLLABORATION — Loop quantum cosmology predicts modifications to the standard Friedmann dynamics of cosmological models in the high energy regime. We show the ramifications of this in the Bianchi I and IX models and how it resolves the classical Big-Bang singularity and replaces it with a bounce for generic forms of matter.

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Kevin Vandersloot
Penn State

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