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Cosmological dynamics from LQG

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During the last years many inspired Loop Quantum Gravity (LQG) models for homogeneous cosmology were carefully studied, however all these models required extra input to be self consistent. In this talk I will briefly present a gauge fixed version of LQG adapted to cosmological systems. The interesting feature of this model is the resulting cosmological dynamics: by using the full structure of LQG the usual bouncing scenario is replaced by the so called emergent bouncing universe.

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