

Dynamics of spatially homogeneous solutions to the Einstein-Vlasov system

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In this talk I shall review recent results on the asymptotic behavior in the past and future direction of spatially homogeneous solutions of the Einstein-Vlasov system. The behavior toward the past singularity is oscillatory, even for the lower Bianchi types of the Lie algebra of symmetries. The structure of the (conjectured) past attractor of the Bianchi type IX solutions will be described.

This talk is based on works in collaboration with Mark Heinzle (Vienna).