

Approximating solutions to Einstein-Vlasov equations by solutions in vacuum

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In this talk, I will present a work in collaboration with Jonathan Luk where we construct a sequence of solutions of Einstein vacuum equations, in a suitable symmetry class, approaching a given solution to Einstein-massless Vlasov equations, thanks to a geometrical optic construction. This is part of a serie of works on Burnett's conjecture, which describe the behaviour of weak limits of solutions to Einstein equations.