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ERIC BAHUAUD, Seattle University
Low regularity conformally compact Einstein metrics

A C^2 conformally compact Einstein metric has sectional curvature decay to -1 up to corrections that are quadratic in the boundary defining function. In this talk I'll discuss the relationship between the curvature decay rate of a generic asymptotically hyperbolic metric and the regularity of the conformal compactification. I then discuss recent work with John M Lee that proves the existence of a low regularity conformally compact Einstein metric with quadratic curvature decay.