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Asymptotics for the wave equation and the black hole stability problem

The asymptotic behavior of solutions to the wave equation on curved backgrounds is closely connected with various important problems in general relativity such as the strong cosmic censorship and the black hole stability problem. In this talk, I will present a new technique that allows us to obtain the precise late-time asymptotics for solutions on such backgrounds. This is joint work with Y. Angelopoulos (UCLA) and D. Gajic (Imperial).