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The stability of Kerr-de Sitter black holes

In this lecture, based on joint work with Peter Hintz, I will discuss the proof of the stability of slowly rotating Kerr-de Sitter black holes, which are rotating black holes in a universe with a positive cosmological constant, i.e. they are explicit solutions (in 3+1 dimensions) of Einstein's equations of general relativity, parameterized by their mass and angular momentum. I will concentrate on the interaction of analysis and geometry in the proof.