



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

Analysis and PDE Seminar

April 12, 2023
3:00 - 4:00 p.m.
PH 328

Global stability of Kaluza-Klein spacetimes

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Abstract. Spacetimes formed from the Cartesian product of Minkowski space and a flat torus play an important role as toy models for theories of supergravity and string theory. In this talk I will discuss a result, joint with Huneau and Stingo, showing the nonlinear stability of such a Kaluza-Klein spacetime. I will also explain how our result is connected to some earlier work of Witten.