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Michael Bradford Williams* (mwilliams@math.ucla.edu), UCLA Mathematics Department,
Box 951555, Los Angeles, CA 90095-1555. *Stability of solutions of Ricci flow.*

Abstract: The Ricci flow is an important tool in geometry, and a main problem is to understand the stability and convergence of solutions of the flow. We describe a general technique for determining dynamical stability of fixed points of certain types of PDE, which has applications to Ricci flow and various related coupled systems. We also describe certain geometric conditions under which classes of fixed points—including Einstein metrics and Ricci solitons—are stable. (Received September 11, 2012)