RICCI FLOW IN GEOMETRY AND PHYSICS

Mauro Carfora

Dipartimento di Fisica Nucleare e Teorica, Università degli Studi di Pavia, Italy

e-mail: mauro.carfora@pv.infn.it

These lectures will cover some of the basic aspects of Ricci flow theory and of its connections with various aspects of theoretical and mathematical physics. Depending on the time allocated we may cover (topics selected from) the following

Programme (tentative)

- 1. An introduction to Ricci flow theory
- 2. A brief overview of Ricci flow and of the Geometrization Theorem
- 3. Ricci flow and Quantum Field Theory Landscaping
- 4. Ricci flow and General Relativity
- 5. Ricci flow and Optimal Transport