1080-51-372 David Gu* (gu@cs.sunysb.edu), David Gu, 1 Newcastle Ave, Plainview, NY 11803, and Jie Gao and Feng Luo. *Ricci flow in Wireless Sensor Networks.*

Ricci flow in geometric analysis is an effective tool to design Riemannian metrics according to prescribed curvatures. Ricci flow can be generalized to the graph setting. This work introduces applications of Ricci flow on wireless sensor networks to tackle fundamental problems in networking, such as routing, load balancing, and localization and so on. (Received January 31, 2012)