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Longzhi Lin*, Department of Mathematics, Rutgers University, 110 Frelinghuysen Road,
Piscataway, NJ 08854-8019. *Uniform convergence of harmonic map heat flow at infinite time.*

In this talk we will present an energy convexity along the harmonic map heat flow with small initial energy and fixed boundary data on the unit 2-disk. In particular, this implies that such harmonic map heat flow converges uniformly in time strongly in the $W^{1,2}$ -topology, as time goes to infinity, to the unique limiting harmonic map. (Received July 09, 2012)