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CHANGYOU WANG* (cywang@ms.uky.edu), Department of Mathematics, University of Kentucky, Lexington, KY 40513. *Biharmonic Map Flows of Small Data in Dimension Eight.*

In this talk, I will prove the existence of smooth solutions for the flow of extrinsic biharmonic maps in dimension at most eight, provide that the Hessian energy of the initial data is small. (Received March 07, 2006)