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*Harmonic map flow in 2 dimension under weak anchoring boundary condition.* Preliminary report.

In this talk, I will discuss the heat flow of harmonic maps under weak anchoring boundary condition, a new boundary condition arising from the Landau-De-Gennes models of nematic liquid crystals. In dimension two, we are able to establish the existence of a unique, global "almost regular" solution, whose asymptotic behavior near the point defects will also be described. This is a joint work with Tao Huang and Yuanzhen Shao. (Received September 14, 2016)