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**Huanjun Gong**, School of Mathematics, Fudan University, Shanghai, 200433, Peoples Rep of China, **Tobias Lamm**, Institut für Mathematik, Goethe-Universität Frankfurt, 1060054 Frankfurt, Germany, and **Changyou Wang\***, Department of Mathematics, University of Kentucky, Lexington, KY 40506. *Boundary regularity of stationary biharmonic maps*. Preliminary report.

In this talk, I will introduce a class of globally stationary biharmonic maps from a bounded domain into a Riemannian manifold. We show that such a class of biharmonic maps are smooth up to the boundary away from a closed subset of zero  $n - 4$ -dimensional Hausdorff measure. This is a joint work with Huanjun Gong and Tobias Lamm. (Received May 16, 2011)