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Faen Wu* (fewu@bjtu.edu.cn), Department of Mathematics, Polytechnic Institute of NYU, New York, NY, and **Yueshan Xiong** and **Xinnuan zhao**. *Classification of Quadratic Harmonic Maps of S^7 into S^7 .*

A complete classification of full quadratic harmonic maps of 7-sphere S^7 into itself is obtained. It is shown that any full quadratic harmonic map of 7-sphere S^7 into itself is equivalent to either the gradient map of the cubic isoparametric polynomial of Cartan or a map depending only on one parameter. The components of the map in latter case are explicitly given. (Received September 17, 2013)