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Karsten Gimre* (gimre@math.columbia.edu), Room 509, MC 4406, 2990 Broadway, New York, NY 10027. *Local solvability of the optimal isometric embedding equation.*

The Wang-Yau prescription for quasilocal gravitational energy is defined by the infimization of an integral quantity which involves the isometric embedding problem. We will discuss a local solvability result for the corresponding Euler-Lagrange equation. (Received January 27, 2016)