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Dehua Wang* (dwang@math.pitt.edu), Department of Mathematics, University of Pittsburgh, Pittsburgh, PA 15260. *Hyperbolic Conservation Laws for Isometric Immersions.*

Isometric immersion is an important problem in geometry. The Gauss-Codazzi equations for isometric immersions of surfaces will be considered. Recent results on global solutions for the hyperbolic problem with negative Gauss curvatures will be presented. In particular, the global smooth isometric immersion of surfaces with slow decay rates for the curvatures will be discussed. (Received September 12, 2016)