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Eun Heui Kim*, 1250 Bellflower Blvd, Department of Mathematics, California State University, Long Beach, Long Beach, CA 90840. *Global solutions for transonic self-similar two-dimensional Riemann problems.*

We discuss the recent development of multi-dimensional transonic Riemann problems. Specifically, we discuss existence results and regularity results on configurations that give rise to transonic problems for a model system – the nonlinear wave system. (Received February 23, 2015)