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David Auckly* (dav@math.ksu.edu), Kansas State University, Mathematics Department, Manhattan, KS 66506, and **Hee Jung Kim, Paul Melvin** and **Danny Ruberman**. *Stable equivalence of knotted spheres, smooth automorphisms, and positive scalar curvature metrics.*

It is known that homotopy equivalent, simply-connected, smooth 4-manifolds become diffeomorphic after enough stabilizations. Similar results may be stated for knotted 2-spheres, smooth automorphisms, and PSC metrics. In general very little is known about the number of stabilizations required. We will compute the required number of stabilizations in a few cases. (Received September 10, 2013)