

Title: C^2 -robust heterodimensional tangencies

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Abstract: We give sufficient conditions for the existence of C^2 -robust heterodimensional tangency, and present a nonempty open set in $\text{Diff}^2(M)$, $\dim M \geq 3$, each element of which has a non-degenerate heterodimensional tangency on a C^2 robust heterodimensional cycle.

This is a joint work with Teruhiko Soma, see the preprint [arXiv:1109.4200](https://arxiv.org/abs/1109.4200) in detail.