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Kupka-Smale theorem

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Let M be a compact smooth manifold, and let $\mathrm{Diff}^k(M)$ denote the space of \mathcal{C}^k diffeomorphisms from M to itself. For every $k \in \mathbb{N}$, the set of Kupka-Smale diffeomorphisms is http://planetmath.org/Residualresidual in the \mathcal{C}^k Whitney topology of $\mathrm{Diff}^k(M)$.