Transformations tangent to the identity.

Stable pieces of manifolds.

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ABSTRACT. Let Φ be a germ of analytic transformation from ($\mathbf{C}^p$, 0) to ($\mathbf{C}^p$, 0), tangent to the identity, and let V be a non degenerate characteristic direction of Φ at the origin. We can naturally associate to V a (p-1,p-1)-matrix A, the class of similarity of which is invariant by changes of coordinates. When A has d eigenvalues, $0 \leq d \leq$ p-1, with strictly positive real parts, we prove the existence of an invariant piece of analytic manifold M of dimension d+1, with the origin in its boundary, in which every point is attracted to the origin in the direction V. If moreover Φ is a global isomorphism of $\mathbf{C}^p$, the set of points attracted to the origin in the direction V is isomorphic to $\mathbf{C}^{d+1}$.

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