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NEW INVARIANTS AND ATTRACTING DOMAINS FOR HOLOMORPHIC MAPS IN $\mathbf{C^2}$ TANGENT TO THE IDENTITY

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Abstract: We study holomorphic maps of $\mathbf{C}^2$ tangent to the identity at a fixed point which have degenerate characteristic directions. With the help of some new invariants, we give sufficient conditions for the existence of attracting domains in these degenerate characteristic directions.

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Key words: Attracting domains, degenerate characteristic directions, holomorphic maps tangent to the identity.