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Recent progress on Ize's conjecture

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The Ize conjecture goes back a long time and addresses an algebraic question which has direct applications to generic equivariant bifurcations. Although quite a few counterexamples to this conjecture are presently known, there are some new conjectures open questions and some partial answers relating to algebra, equivariant bifurcations and dynamics. In this talk we would like to present some of these issues and try to provide some answers.