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Title: Pivots of Dihedral Deformations

Abstract: I will discuss an ongoing joint work with Daniel Hoff, Rolando de Santiago, and Thomas Sinclair. In it, we investigate dihedral deformations as defined by Popa. We show that any ^{diffe} subalgebra on which the deformation converges uniformly is contained in a unique maximal diffuse subalgebra on which the deformation converges uniformly. We establish permanence properties, ~~as well as~~ ~~and~~ analyze the group case, and discuss applications to L^2 -rigidity.