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Bernd Sturmfels* (bernd@berkeley.edu), Department of Mathematics, University of California, Berkeley, CA 94720. *The Hurwitz form of a projective variety.*

The Hurwitz form of a variety is the discriminant that characterizes linear spaces of complementary dimension which intersect the variety in fewer than degree many points. We study computational aspects of the Hurwitz form, relate this to the dual variety and Chow form, and show why reduced degenerations are special on the Hurwitz polytope. (Received September 03, 2015)