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Roberta Guadagni* (rguadagni@math.utexas.edu). *Symplectic topology of singularities.*

While the study of singularities is a very developed field in many areas from algebraic geometry to PDEs, the symplectic point of view is still very much work in progress. Symplectic forms are naturally defined only on smooth spaces, therefore even giving the right definition of symplectic manifolds with singularities isn't straightforward. After giving a (very brief) overview of the problem, I will focus on the symplectic geometry (and topology) of algebraic singularities embedded in a Kaehler ambient space. The simplest case is the symplectic Lefschetz singularity. For isolated singularities one can look at symplectic versions of the Milnor fibre (as done by A. Keating). Very little is known about the symplectic geometry of algebraic, non isolated singularities. (Received September 26, 2017)