

MR1129033 (93a:14003) [14B07](#) ([14J17](#) [32S05](#) [32S25](#))

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Disentanglements.

Singularity theory and its applications, Part I (Coventry, 1988/1989), 199–211, *Lecture Notes in Math.*, 1462, Springer, Berlin, 1991.

The authors have previously studied the admissible deformations of a pair (X, Σ) consisting of a hypersurface germ and a subscheme of the singular locus: one deforms X and Σ in a flat way, keeping Σ part of the critical locus. The situation arises naturally from generic projection of an isolated Cohen-Macaulay singularity (V, o) of dimension n to $\mathbf{C}^{n+1}$. One may use deformation results about (X, Σ) to recover information about the deformations of V ; e.g., a smoothing of V corresponds to a “disentanglement” of (X, Σ) . In this way, the authors give a lovely and purely local proof of the reviewer’s result that for a normal surface singularity, the difference in dimension of smoothing components is even. In addition, they give a (second) proof of a conjecture of D. Mond concerning map germs of $\mathbf{C}^2$ to $\mathbf{C}^3$ of finite codimension.

{For the entire collection see [MR1129020 \(92d:00035\)](#)}

Reviewed by [Jonathan M. Wahl](#)

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