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Kobe Kremnizer*, MIT. *Localization for W-algebras.*

This is joint work with Chris Dodd. I will present a general paradigm of localization type results. The setup is of a symplectic resolution of singularities and its quantizations. As examples I will give the Beilinson-Bernstein localization (Springer resolution), the Kashiwara-Rouquier localization (the Hilbert scheme of points on the affine plane) and localization for finite W-algebras (Slodowy slices). I will also talk about the modular and quantum versions of localization. (Received September 04, 2008)