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K-homology and localization algebras

I'll discuss a new model for K-homology based on a non-commutative generalization of the localization algebra of Guoliang Yu. I'll then talk about how this model gives rise to a 'controlled' picture of K-homology, and some applications to computing the K-theory and K-homology of crossed product C^* -algebras associated to actions of discrete groups on compact spaces, among other things. This is based on joint work with Marius Dadarlat and Jianchao Wu, and with Guoliang Yu.