Commutative Algebra Seminar

The Cartier core map for Cartier algebras

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Abstract: For a local F-finite ring, the splitting prime is an "obstruction" to strong F-regularity. In this talk, we will define the self-map on the Frobenius split locus of a ring R which sends a point P to the splitting prime of R_P, and discuss the generalization of this map to the setting of Cartier algebras. We will go over some properties of this map and, as an application, will show how it behaves for Stanley-Reisner rings.

Tuesday, October 18 at 11:00 AM in 636 SEO