

Algebraic Geometry Seminar

F-signature and relations to algebraic geometry

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Abstract: The F-signature of a local ring R of characteristic $p > 0$ is a real number which reflects the severity of the singularities of R . It was introduced explicitly by C. Huneke and G. Leuschke building upon work of K. Smith and M. Van den Bergh. In this talk, I will explain some of its history, and its recent generalization to the context of pairs. I will also explain connections to the minimal log discrepancy and how the F-signature might be useful for studying geometric questions in the future. Most of what is discussed is joint work with Manuel Blickle and Kevin Tucker.

Wednesday, March 7 at 4:00 PM in SEO 427