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**Florian Enescu\*** (fenescu@gsu.edu), Department of Mathematics and Statistics, Georgia State University, Atlanta, GA 30303, and **Yongwei Yao**, Department of Mathematics and Statistics, Georgia State University, Atlanta, GA. *The Frobenius complexity of determinantal rings*. Preliminary report.

In this talk we will describe the concept of Frobenius complexity of a local ring of prime characteristic, which measures asymptotically the number of Frobenius actions on the injective hull of the residue field of the ring. Various computations will be presented with a focus on determinantal rings. (Received August 18, 2015)