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**Vasiliy Prokhorov\*** (prokhor@jaguar1.usouthal.edu), Department of Mathematics and Statistics, ILB 325 University of South Alabama, 307 North University Blvd, Mobile, AL 36688-0002. *On rational approximation on discrete sets of the complex plane*. Preliminary report.

We discuss some questions related to rational approximation of analytic functions on discrete sets of points of the complex plane, including properties of the discrete Hankel operator, an analogue of the AAK theorem, and rational approximation of Markov functions. (Received January 16, 2012)