

1086-00-1332 **Mark Rudelson*** (mk1@ams.org). *Non-asymptotic theory of random matrices*. Preliminary report.

Rudelson will discuss recent developments in the study of the spectral properties of random matrices of a large fixed size, concentrating on the extreme singular values. Bounds for the extreme singular values were crucial in establishing several limit laws of random matrix theory. Besides the random matrix theory itself, these bounds have applications in geometric functional analysis and computer science. (Received September 21, 2012)