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Vladimir Shpilrain* (shpil@groups.sci.ccny.cuny.edu), Department of Mathematics, The City College of New York, New York, NY 10031. *Randomness and complexity in matrix groups.*

We reflect on how to define complexity of a matrix and how to sample a random invertible matrix. We also discuss a related issue of complexity of algorithms in matrix groups. (Received March 01, 2017)