1145-03-2447   **Johanna N.Y. Franklin*** (`johanna.n.franklin@hofstra.edu`), Department of Mathematics, Room 306, Roosevelt Hall, Hofstra University, Hempstead, NY 11549, and **Russell Miller**.
Measure and randomness for algebraic structures.

R. Miller has recently introduced a method for defining an effective measure on the spaces of the isomorphism types of computable algebraic structures such as algebraically closed fields and finitely branching trees. This gives us a new way to discuss the frequency of certain properties of computable structures, including computable categoricity.

In fact, we can ask whether there is a type of randomness that will guarantee $\mathcal{P}$ for any measure-one property $\mathcal{P}$. In the case of algebraically closed fields of characteristic 0, we have shown that Schnorr randomness is enough to guarantee uniform computable categoricity. I will present this result as well as some comments on finitely branching trees. (Received September 25, 2018)