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Caroline Terry* (cterry3@uic.edu), University of Illinois at Chicago, Chicago, IL 60607. *Some new logical zero-one laws.*

Suppose \mathcal{L} is a finite first-order language and for each integer n , suppose $F(n)$ is a set of \mathcal{L} -structures with underlying set $\{1, \dots, n\}$. We say the family $F = \bigcup_{n \in \mathbb{N}} F(n)$ has a zero-one law if for every first order sentence ϕ , the proportion of elements in $F(n)$ which satisfy ϕ goes to zero or one as $n \rightarrow \infty$. In this talk we give a brief overview of the history of zero-one laws, then present some new examples. This is joint work with Dhruv Mubayi. (Received October 08, 2015)