

1112-03-476

Cameron Donnay Hill* (cdhill@wesleyan.edu), Dept. of Mathematics and Comp. Science, Wesleyan University, 265 Church Street, Middletown, CT 06459. *Sufficient conditions for tight control of the asymptotics of definable sets.*

In 1-dimensional and N -dimensional asymptotic classes, Elwes, Macpherson, and Steinhorn have formulated a context in which the sizes of definable sets in finite structures are under control as tightly as one might reasonably hope in light of the Lang-Weil estimates for varieties over finite fields. In this talk, I will discuss sufficient conditions for “1-dimensional asymptotic-ness,” and broadly similar conditions (related to Hrushovski’s pseudo-finite dimensions), that arise from structural Ramsey theory and the study of 0,1-laws for first-order logic. (Received August 10, 2015)