

1096-AC-1698      **Mits Kobayashi\*** ([mkobayashi@csupomona.edu](mailto:mkobayashi@csupomona.edu)), Cal Poly Pomona, Department of Mathematics and Statistics, Pomona, CA 91768. *Erdős and the abundant numbers.*

As early as 1934 Erdős turned his attention to the abundant numbers, giving an elementary proof of the result of Davenport that the natural density of abundant numbers exists. This was done by estimating the number of primitive abundant numbers up to a given bound. We will focus on the progress made in the study of primitive abundant numbers and the existence of densities defined by multiplicative functions, much of which was due to Erdős himself. (Received September 16, 2013)