On a theorem of Erdos

Filip Saidak (filips@math.ucalgary.ca)
University of Calgary
Department of Mathematics
Calgary, AB
Canada

Abstract. A 1974 theorem of Erdos implies good density results concerning integers n < x, satisfying the condition $a < \sigma(n)/n < a(1+1/t)$, for a given a > 1, and 2 < t < x. In this talk we describe a couple of generalizations of this result, and we discuss some of their applications.