## ON THE DIFFERENCE SET OF A CENTRAL CANTOR SET

## PIOTR NOWAKOWSKI

We consider central Cantor sets in [0,1]. Each central Cantor set (denoted by C(a)) is uniquely determined by a sequence  $a = (a_n)$  belonging to  $(0,1)^{\mathbb{N}}$ . We examine the algebraic difference C(a) - C(a) called the difference set of C(a). We give some conditions for a sequence a which imply that the difference set of C(a) is a Cantorval or a Cantor-type set. We also use these conditions in a case of some specific central Cantor sets.

Institute of Mathematics, Łódź University of Technology, ul. Wólczańska 215, 93-005 Łódź, Poland  $E\text{-}mail\ address$ : piotr.nowakowski@edu.p.lodz.pl