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Kazimierz Nikodem* (knikodem@ath.bielsko.pl), Dept. of Mathematics, University of Bielsko-Biala, PL-43-309 Bielsko-Biala, Poland. *Minkowski sums of Cantor-type sets*. Preliminary report.

It is known that for the classical Cantor set C the Minkowski sum $C + C$ is equal to $[0, 2]$. However, if A is the set constructed in a similar way as C but in each step we remove the middle open half of each interval (instead of middle third of it), then $A + A$ is of Lebesgue measure zero. Yet $A + A + A = [0, 3]$. Some other results of this type are also discussed. (Received December 12, 2005)