

# ON THE DIMENSION OF $A + BC$

TUOMAS ORPONEN

Let  $A, B, C$  be compact subsets of  $[0, 1]$ . What is the (Hausdorff) dimension of  $A + BC$ ? The problem is open, but I will discuss the current partial results. After briefly discussing the case of general compact sets, I will focus on the case where  $A, B$  are Ahlfors-regular.