

1041-52-163

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A convex  $k$ -partition of the plane is a collection of  $k$  internally disjoint convex sets  $P_1, \dots, P_k$  whose union is the whole plane. A recent question, raised by Nandakumar and Ramanda Rao, asks that, given a convex body  $C$  in the plane and an integer  $k \geq 2$ , is there a convex  $k$ -partition,  $P_1, \dots, P_k$ , of the plane such that the area and the perimeter of each of the  $k$  (convex) pieces  $P_i \cap C$  is equal. The case  $k = 2$  is very simple. I'll sketch the solution when  $k = 3$ . The methods use equivariant topology with a some extra features from convex geometry. (Received August 10, 2008)