

Exercises

E11.9 [OYV] In the exercise [OYS] it is important to require that the balls are centered in points of K . Find an example of metric space (X, d) and compact $K \subseteq X$ of finite dimension, but such that, for every $n \in \mathbb{N}$ and every $\rho > 0$, there are infinite disjoint balls each containing only one point of K .

Solution 1. [OYW]