1176-42-367 **Kyle Hambrook*** (kyle.hambrook@sjsu.edu) and **Han Yu** (hy351@cam.ac.uk). Non-Salem sets in metric Diophantine approximation.

A classical result of Kaufman states that the set of well-approximable numbers (of any given order) is a Salem set. A natural question to ask is whether the same phenomena holds for well-approximable vectors. We prove that this is in general not the case. We also show that the set of badly-approximable vectors is not Salem. (Received January 26, 2022)