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Xiumin Du, Yumeng Ou* (yumengou@sas.upenn.edu) and **Ruixiang Zhang**. *On the multiparameter Falconer distance problem.*

In this talk I will discuss some recent progress on the Falconer distance problem in the multiparameter setting. A key ingredient in the proof is a new multiparameter radial projection theorem for fractal measures. The method also naturally implies new dimension estimates of pinned multiparameter distance set. (Received August 23, 2021)