1172-42-310　　　　　　**Hong Wang***, Hong.Wang1991@gmail.com, and **Pablo Shmerkin**. *Projections and distance set problem.*

Given a fractal set E in $\mathbb{R}^d$, how large is the radial projection of E from one point in E? How large is its distance set $\Delta(E) = \{|x - y| : x, y \in E\}$?

In the work in progress with Pablo Shmerkin, we provide some partial results. (Received August 31, 2021)