

## **Abstract**

Following our detection of the kinetic SZ effect towards one of the merging sub-clusters in MACS J0717, we have obtained similar data from Bolocam/AzTEC, Herschel-SPIRE, and Chandra for an additional nine clusters. I will present an update on our analysis of these data, which is nearly complete. Based on previous X-ray morphological studies, four of the clusters in our sample have been characterized as likely line-of-sight mergers, and, as expected, we find that these objects show a larger variation in the kinetic SZ signal over the cluster compared to the other six objects. We have also discovered a significant bias in the cluster-averaged kinetic SZ signal due to cluster lensing of background galaxies, and I will describe how we are correcting for this bias. I will also present our plans to extend these kinetic SZ studies using higher resolution and more sensitive data.