

Arc Statistics with X-Ray Luminous Medium Redshift Galaxy Clusters.

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We present the ARCRAIDER project - a search for gravitational arcs in a sample of 21 medium redshift galaxy clusters with the highest X-Ray luminosity of the ROSAT Bright Survey. As the X-ray brightness of clusters is correlated with their mass all systems are assumed to be very massive and hence their probability to act as gravitational lens is very high (~ 45%). The project aims at arc statistics which is a powerful tool for distinguishing between cosmological models. In this talk we present the first clusters with arcs.

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