

RADIO LUMINOSITY FUNCTION OF BRIGHTEST CLUSTER GALAXIES IN THE EXTENDED GMRT SAMPLE

Venturi et al.

The question:

BCGs show a higher probability of radio loudness compared to other ellipticals (Best et al.) – Is it their mass, or their favourite location at cluster centres, or both? Clusters are not all alike: we have merging and relaxed clusters. Does it make a difference?

The project:

We built a sample of **58 BCGs** starting from the 66 clusters in our Extended GMRT Cluster Sample. For **61/66 clusters** we have accurate information on their dynamical state from Chandra and/or XMM data – **23 merging and 38 relaxed** - which allowed to derive the fraction of radio loud BCGs and their radio luminosity function in each environment.

RESULTS

