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SDSS cluster field around Speca the BCG

Discovery of an exotic galaxy, Speca

After our discovery of the first confirmed spiral-host large radio galaxy Speca in 2011 the sample has grown to five only with many targeted searches and serendipitous discoveries. We have followed up Speca with Himalayan Chandra Telescope (HCT) imaging, Subaru spectroscopy, XMM-Newton imaging and new data from GMRT. HCT images show signs of ram pressure from the intra-cluster medium in which Speca is and supported by Subaru spectroscopy to be one of the most massive spirals, X-ray image demonstrate it not to be at the centre of the cluster potential or peak of diffuse emission from theIntra-cluster medium. Deeper GMRT imaging did confirm the diffuse/remnant nature of the relic lobes separated by Mpc











