



Figure 4.2 BCG radio power vs. K_0 for clusters with $z < 0.2$. Orange symbols represent radio detections and black symbols are non-detection upper-limits. Circles are for NVSS observations and squares are for SUMSS observations. The blue squares with inset red stars or orange circles are peculiar clusters that do not adhere to the observed trend (see text). Green triangles denote clusters plotted using the 2σ upper-limit of the best-fit K_0 . The vertical dashed line marks $K_0 = 30 \text{ keV cm}^2$. The radio sources show the same trend as $\text{H}\alpha$: bright radio emission is preferentially “on” for $K_0 \lesssim 30 \text{ keV cm}^2$.