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Radio extended regions in AGN and their connection with cosmic rays

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We study whether radio relics, halos and mini-halos contribute in the acceleration of cosmic rays. These extended structures are not associated with the AGN phenomenon.

AGN can produce particle bubbles of non-thermal emission, which can restrict cosmic rays. Radio relics and (mini) halos could be forming as a result of the confinement of cosmic rays by these bubbles. For our study we use radio, optical and X-ray data of a sample of 70 Abell clusters. We report on the work in progress and future plans.

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