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Francesco Ubertosi: AGN feedback from FR0, FRI, and FRII galaxy clusters

Thursday, 2 March 2023 10:00 (15 minutes)

When radio-loud active galactic nuclei (AGN) live in dense environments, we can obtain insights on their properties and lifecycle from the imprints they leave on the surrounding environment. In this talk I will present our recent results on the effects that radio galaxies can have on the gaseous atmospheres of their host galaxy groups or clusters. In particular, I will show how using X-ray observations (specifically Chandra) allows us, for instance, (a) to investigate the process of AGN feedback through the inflation of bubbles and the driving of shocks in the intracluster medium, and (b) to understand how different classes of radio galaxies may have varying effects on their environment. Regarding the last point, besides describing our work on the properties of the “canonical” FRI and FRII radio galaxies in clusters, I will also present our results on the emerging class of FR0 radio galaxies.