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Gianluca Castignani: AGN feedback in radio galaxies at mm wavelengths

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I will review some of the most recent results on AGN feedback in radio galaxies based on millimeter studies which rely on single dish (e.g., APEX, IRAM-30m, LMT) and interferometric (e.g., ALMA, NOEMA) observations. I will describe in particular how recent observations of cold molecular gas, which is the fuel of star formation, can give insights on both positive and negative radio-mode AGN feedback in radio galaxies over cosmic time. I will discuss how large scale structure environments of radio galaxies may play a role in the replenishment of molecular gas reservoirs, a process which is ultimately regulated by the radio mode AGN feedback.