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Radio galaxies in gamma rays

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The third Cambridge catalogue (3C) includes several sources detected at gamma-ray energies. While blazars outnumber radio galaxies in the Fermi Large Area Telescope (LAT) catalogues by nearly two orders of magnitudes, counts are more balanced among the bright, steep spectrum sources composing the 3C. Starting with a focus on the gamma-ray detected 3C radio galaxies, we will present a summary of the properties of misaligned active galactic nuclei (M-AGN) included in the fourth catalogue of AGNs detected by the LAT (4LAC). We will report on the number of sources and their distributions in gamma-ray luminosity, photon index, FR type, and multi-wavelength properties. We will also discuss the implications in terms of location and emission processes for the high energy emission. Finally, we will present the prospects offered by future observations in gamma rays with LAT and the Cherenkov Telescope Array, as well as in radio with the new facilities eventually leading to the Square Kilometre Array.

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