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Gabriele Bruni: Glowing in the dark: gamma-ray emission from radio lobes, and the emerging population of high-energy radio galaxies

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The advent of new all-sky radio surveys such as VLASS, RACS, and LoTSS, performed with the latest generation radio telescopes, is opening new possibilities on the classification and study of extragalactic gamma-ray sources, specially the underrepresented ones like radio galaxies. I will discuss the recent discovery of new gamma-ray radio galaxies from the 4th Fermi/LAT catalogues, among which a FR II with hints of GeV emission from its lobes. Their classification, only possible thanks to new generation radio surveys, unveils an emerging population of radio galaxies in the gamma-ray sky, that could be studied in the next decade with SKA and ngVLA.