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Machine Learning the gamma sky: from dwarfs spheroidals to point-like sources

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In this talk I plan to discuss about two applications of machine learning techniques to the analysis of data coming from the sky in the gamma-ray energy range. The first example deals with the determination of the astrophysical background at dwarf galaxies, in the context of dark matter searches. Possible applications to the Galactic Centre will be discussed as well. In the second part we discuss about a work in progress studying the classification of unassociated point-like sources, as taken from the Fermi-LAT catalog.