

The challenge of understanding AGNs through extensive multiwavelength observations

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The Active Galactic Nuclei (AGN) are the most powerful persistent sources in the Universe, bringing information from extreme environments expected to accelerate particles to energies well above those at reach on Earth-based laboratories. In the last decade, the advent of novel instrumentation has boosted our capabilities to study these environments across the electromagnetic spectrum. Such technological improvement is largest in the gamma-ray domain, where the operation of Fermi-LAT and the new and/or upgraded generation of ground-based instruments like HAWC, H.E.S.S., MAGIC, and VERITAS has provided us with a wealth of possibilities that did not exist before. In the talk I will put into context the main challenges we are facing, I will review several exciting studies published in the last years, and will describe the prospects for the future observations.

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