

Contributed Talk

Splinter AGN

THE NON-THERMAL ASTROPHYSICS OF RELATIVISTIC AGN JETS

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Non-thermal processes are both driving and shaping the appearance of relativistic AGN jets. I will report on recent progress to probe into the physics of these jets by means of high-energy observations. Particular attention will be given to the large-scale jet characteristics in M87 where complex X-ray emission features have been emerging, and to physical scenarios capable of explaining the origin of the extended X-ray emission in the kiloparsec-scale jets of AGN. The relevance of these results for future studies in the context of SKA and CTA will be discussed.