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Investigating AGN Variability with the Cherenkov Telescope Array and nectarCAM

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Active Galactic Nuclei (AGN) stand as enigmatic cosmic powerhouses, harboring supermassive black holes at their centers. Blazars are AGN with a jet oriented toward the observer. Their emission spans from radio to very high-energy gamma rays. Understanding their spectral variability provides crucial insights into the underlying physics governing these astrophysical phenomena. The Cherenkov Telescope Array (CTA) is poised to revolutionize high-energy gamma-ray astronomy, offering unprecedented sensitivity and energy resolution. One of its key components, the Medium-sized Telescope, will be equipped with the nectarCAM camera, currently under development by the LPNHE.

In this talk, we will discuss the CTA's prospects for studying blazar variability and the software development efforts leading to nectarCAM's calibration.

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