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Monitoring at TeV energies, M@TE

Blazars are extremely variable objects emitting radiation across the electromagnetic spectrum and showing variability on time scales from minutes to years. Simultaneous multi-wavelength observations are crucial for understanding the emission mechanisms. From radio via optical, X-ray to gamma rays, a variety of instruments, as Fermi and OVRO, are already monitoring blazars. At TeV energies, long-term monitoring is currently carried out by HAWC and FACT. Towards 24/7 continuous observations, the goal is to have similar monitoring telescopes at locations around the globe. With the M@TE (Monitoring at TeV energies) project, we will install an Imaging Air Cherenkov Telescope equipped with an improved version of the FACT camera at the site of San Pedro M\'artir in Mexico. Extending the observation time to up to 12 hours per night by combining data from FACT and M@TE allows to study blazar variability on the typical flaring time scales of a few hours providing the possibility to constrain variability time scales of the emission. In this work, we will present the status of the project.

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