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Interactions between FACT and HAWC

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Both FACT and HAWC are monitoring at TeV energies. While HAWC is covering two thirds of the sky every day, FACT is monitoring a small sample of sources in pointed-mode with a better sensitivity.

Thanks to its camera with solid-state photosensors, FACT features an excellent detector performance and stability, which is ideal for monitoring. As the sensors do not degrade when exposed to bright light, observations during strong moonlight are possible, increasing the duty cycle compared to other imaging air Cherenkov telescopes and minimizing the gaps in the light curves around full moon.

This presentation will summarize the five years of FACT monitoring with a special focus on the first joint study of blazar light curves from HAWC and FACT. Benefiting from the 5.3 hour offset between the two sites, light curves with up to 12 hours of continuous coverage are obtained. In a short outlook towards 24/7 monitoring, the plans of the projects M@TE and DWARF will be discussed.

Primary author: Dr DORNER, Daniela (Universität Würzburg)

Presenter: Dr DORNER, Daniela (Universität Würzburg)

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