

Title: Operational Concepts of the CTA Observatory in the Time Domain Astronomy

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Abstract: The Cherenkov Telescope Array Observatory (CTAO) will be the first ground-based gamma-ray observatory open to the global community to propose observations and grant full access to the scientific data obtained. The CTAO will comprise more than one hundred telescopes at the two CTA array sites in the Northern and Southern Hemispheres. With its unprecedented sensitivity, ten times the sensitivity of existing instruments, and its large field of view of more than twice that of existing instruments (and up to several tens of degrees in divergent survey mode), the CTAO will become one of the cornerstones for observing transient phenomena in the era of multi-messenger astrophysics. We will give an overview of the operational challenges for the CTAO in the study of the transient universe and the concepts to overcome them.