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Study of transient phenomena with the first large CTAO telescope

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Since 2018, the first Large Size Telescope (LST), from the CTAO experiment, is observing various sources in our night sky. To ensure the best pointing possible, it appears mandatory to know the structure effects that affect the pointing of the telescope. The first part of this talk will be dedicated to what is called the bending model, a system which allow correcting the misspointing. Its functioning and potential improvements will be discussed.

The second part of the presentation will focus on data analysis of transient phenomena, such as gamma ray bursts. Those extremely energetic events are among the most important science topics of the collaboration. Until now, none has been detected with the LST. Due to their rapidly varying signal, specific methods can help to improve the chances to detect one of those highly energetic extragalactic sources.

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