

## Workshop on a wide field-of-view Southern Hemisphere TeV gamma ray observatory

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# Astrophysical motivations for the construction of a wide FoV gamma-ray observatory in the southern hemisphere

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After the successful performance of ground-based wide FoV gamma-ray observatories in the northern hemisphere, the construction of a similar observatory to observe the southern sky has become a must. The design of a such an observatory will be driven by the physics cases accessible to it. In this contribution we will discuss the physics cases that can only be accessed by this kind of detector. We will also compare the sensitivity of a preliminary design array with the emission expected from this kind of sources.

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