# Southern Wide-field Gamma-ray Observatory 2024, the year of decisions: Layout, Detectors, Site

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log<sub>10</sub> (E , / GeV)

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Last week: México: - first consensus towards Layout and detectors



Ptail

ISBOA

April 2024 <sup>1</sup>



# **SWOT Analysis**

## Strengths

Expertise and sound activity in cosmic-ray research, detector R&D, data analysis, simulation, air shower physics and phenomenology. Close links with Brazilian, Czech, Italian and Spanish groups.

#### Weakness

Even if the group has been steadily growing, it is still below the desired mark, namely: on its capacity to increase its contribution on general reconstruction tasks; to develop more phenomenological activities for which the group is well qualied. The funding is, for the moment, only guaranteed until mid-2024.

### **Opportunities**

Extended energy range (100 GeV - 10s PeV). Rich science program including multi-messenger, Pevatron and fundamental physics. The only wide-eld gamma-ray observatory surveying the Southern sky. Large opportunities various dierent engineering and physics domains from the design, construction, operation and data analysis.

#### Threats

It is an ambitious project that will imply at medium and long term reasonable nancial and human resources.