

Publications

Conference Proceedings

- *A next-generation ground-based wide field-of-view gamma-ray observatory in the southern hemisphere*, H. Schoorlemmer (on behalf of the SWGO collaboration), [PoS\(ICRC2019\)785](#)
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Related publications

Science case white paper

- *Science Case for a Wide Field-of-View Very-High-Energy Gamma-Ray Observatory in the Southern Hemisphere*, SGSO-alliance, [arXiv:1902.08429](#)

Contributions to the ASTRO2020 decadal survey

Instrument

- *The Southern Wide-Field Gamma-Ray Observatory (SWGO): A Next-Generation Ground-Based Survey Instrument for VHE Gamma-Ray Astronomy*. Petra Huentemeyer et al., [arXiv:1907.07737](#)

Science cases

- *All-Sky time domain astrophysics with Very High Energy Gamma rays in the southern hemisphere*, K. Satalecka + F. Schüssler et al., [DecadalSurveyASTRO2020_TransientsSGSO.pdf](#)
- *Searching for Sources of TeV Particle Dark Matter in the Southern Hemisphere*, A. Albert et al., [DecadalSurveyASTRO2020_DM_Sources.pdf](#)
- *Pulsars in a Bubble? Following Electron Diffusion in the Galaxy with TeV Gamma Rays*, H. Fleischhack et al., [Link to submitted version](#), [Arxiv link](#)
- *Surveying TeV Gamma-ray Emission from Active Galactic Nuclei*, Fraija et al., [DecadalSurveyASTRO2020_AGNSGSO.pdf](#)
- *Cosmic Rays in the TeV to PeV Primary Energy Range*, Fraija et al., [DecadalSurveyASTRO2020_CRSGSO.pdf](#)
- *The GeV-TeV Sun: A New Laboratory for Astroparticle Physics*, M. U. Nisa et al. [:sun_2020.pdf](#)

General considerations

- H. Schoorlemmer, J.A. Hinton, R. López-Coto. "Characteristics of extensive air showers around the energy threshold for ground-particle-based γ -ray observatories", *Eur. Phys. J. C* (2019) 79: 427. doi:<https://doi.org/10.1140/epjc/s10052-019-6942-x>

- *Baseline Design for a Next Generation Wide-Field-of-View Very-High-Energy Gamma Ray Observatory*, H. Schoorlemmer, R. Lopez-Coto and J. Hinton, [PoS\(ICRC2017\)819](#)
- *On the scientific motivation for a wide field-of-view TeV gamma-ray observatory in the Southern Hemisphere*, M. Mostafa, S. BenZvi, H. Schoorlemmer, F. Schüssler on behalf of the HAWC Collaboration, [PoS\(ICRC2017\)851](#)

Detector Design and Prototyping

- *Design and expected performance of a novel hybrid detector for very-high-energy gamma-ray astrophysics*, P. Assis, U. Barres de Almeida, A. Blanco, R. Conceição, B. D’Ettorre Piazzoli, A. De Angelis, M. Doro, P. Fonte, L. Lopes, G. Matthiae, M. Pimenta, R. Shellard, B. Tomé, <https://www.sciencedirect.com/science/article/pii/S0927650518300586?via%3Dihub>
- *Design of the LHAASO detectors*, Huihai He for the LHAASO Collaboration, <https://link.springer.com/article/10.1007/s41605-018-0037-3>
- *The overview of the ALPACA Experiment*, M. Ohnishi, [PoS\(ICRC2017\)827](#)
- *Simulation study for the proposed wide field-of-view gamma-ray detector array ALTO*, S. Thoudam, Y. Becherini and M. Punch, [PoS\(ICRC2017\)780](#)

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