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), Proceedings of ICRC 2019, PoS(ICRC2019)785
- *The Southern Wide-Field Gamma-ray Observatory (SWGO)*, Proceedings of IWARA 2020 Virtual Conference, Ulisses Barres de Almeida (for the SWGO Collaboration), https://arxiv.org/abs/2012.13740

Related publications

SWGO-related papers (Cat3)

- Elena Orlando and Andrew Strong, 2021. StellarICS: inverse Compton emission from the quiet Sun and stars from keV to TeV - https://ui.adsabs.harvard.edu/abs/2021JCAP...04..004O/abstract
- Aion Viana et al. 2019. Searching for Dark Matter in the Galactic Halo with a Wide Field of View TeV Gamma-ray Observatory in the Southern Hemisphere - https://arxiv.org/abs/1906.03353
- *Detection of VHE gamma-ray transients with monitoring facilities*, G. La Mura et al. MNRAS 497 (2020) 3, https://arxiv.org/abs/2001.04503

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 raysmisphere,* 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

- *Characteristics of extensive air showers around the energy threshold for ground-particle-based γ-ray observatories*, H. Schoorlemmer, J.A. Hinton, R. López-Coto. 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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