

The Southern Fermi Bubble and Other Very Extended Emission Structures with the Southern Gamma-Ray Survey Observatory

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A very high energy gamma-ray survey observatory in the southern hemisphere delivering a large field-of-view and high-duty cycle will complete the picture of our galaxy, in particular in regards to extended and large scale structures. It will provide unprecedented access to the southern Fermi bubble region, to molecular clouds, and diffuse emission in the southern hemisphere at energies $> \text{GeV}$. I will discuss possible detection scenarios, required sensitivities, and physics constraints that could be gained from a large area emission analysis.

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