

## Very high energy gamma-ray astronomy : The HESS experiment

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Over the past few years, very-high-energy gamma-ray astronomy has emerged as a truly observational discipline, with many detected sources representing different galactic and extragalactic source populations-supernova remnants, pulsar wind nebulae, giant molecular clouds, star formation regions, compact binary systems, and active galactic nuclei. The H.E.S.S. array of imaging atmospheric Cherenkov telescopes has revealed a sky full of sources of very high energy gamma rays, challenging our knowledge of particle acceleration (either hadronic or leptonic) and propagation in environments with extreme conditions.

The talk will illustrate some of the key results from H.E.S.S., mention some of the open questions, and give a general overview of the future plans.

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