

Workshop on a wide field-of-view Southern Hemisphere TeV gamma ray observatory

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Recent results from H.E.S.S.

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The High Energy Stereoscopic System (H.E.S.S.) is an array of Imaging Atmospheric Cherenkov Telescopes (IACTs) located in the Khomas Highland of Namibia. The array initially consisted of four 12m telescopes and provided a vast array of discoveries which now form the heritage of the very-high-energy (VHE) gamma-ray astronomy (e.g. the H.E.S.S. Galactic Plane Survey). In 2012, a fifth 28m telescope was added to the array to extend the energy range down to ~ 30 GeV and allow for rapid reaction to alerts and ToOs. The cameras of the 12m telescopes are currently being upgraded to improve the data taking efficiency and optimize the array performance at low energies.

In this contribution we will present the current status of H.E.S.S. and review recent results including the H.E.S.S.-II observations of the Vela pulsar and several AGNs, as well as the discovery of the Galactic Centre “Pevatron”. We will also discuss the H.E.S.S. multi-messenger program and searches for transient events like GRBs.

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