

Ten years of H.E.S.S. I extra galactic observations revisited

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In the past decade, the H.E.S.S. (High Energy Stereoscopic System) experiment has significantly contributed to the field of ground-based gamma-ray astronomy. In particular, during the first phase of the experiment from 2004 to 2013, the extra galactic observation program led to the discovery of more than 20 sources of VHE gamma-rays. During this observation program, some regions of the sky were also observed without leading to a detection. About 6.5% of the extra galactic sky was observed and it is now possible to re-analyse these data with the most up-to-date analysis techniques in an uniform way. This allows for population studies, variability studies, transient searches in the observed regions and robust comparison with the latest Fermi-LAT catalogs. In this contribution, the re-analysis of these ~ 2700 hours of observation is presented, together with the data products that are intended to be released to the scientific community.

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