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H.E.S.S. Observations of the giant radio galaxy M87

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The supergiant elliptical galaxy M87 has been first detected at Very High Energies (VHE, $E > 0.4$ TeV) by the H.E.S.S. telescopes in 2005. M87 has been continuously observed by the VHE instruments, resulting in the detection of three high flux states occurring respectively in 2005, 2008 and 2010. However, the origin and location of the gamma-rays production remains still unresolved. With its vicinity (16.7 Mpc), the relativistic jet inclination (20°) towards the Earth and the supermassive black hole ($M = (3 - 6) \times M_\odot$), M87 offers a unique laboratory to study the gamma-ray production and solve the origin of the VHE emission. In this work we present the recent results and an overview of 10 years of observations with the H.E.S.S. telescopes.

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