## **30th International Cosmic Ray Conference**



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# VHE gamma-ray observations of starburst galaxies with H.E.S.S.

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### Abstract content

Starburst galaxies are characterized by extremely high star-formation rates and, as a consequence, very high supernova rates. These rates, as well as the gas density, are orders of magnitude higher than in our Galaxy. Such an environment contains both a high cosmic ray flux and high density of target material for pp and inverse compton interactions. These objects are therefore viable candidates for observable levels of VHE gamma-ray mission. Several starburst galaxies have been observed with H.E.S.S. stereoscopic array of atmospheric-Cherenkov telescopes. Results of these observations will be presented.

# If this papers is presented for a collaboration, please specify the collaboration

H.E.S.S. Collaboration

#### Summary

#### Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 3 (OG part 2), pages 929-932

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