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VEGAS, the VERITAS Gamma-ray Analysis Suite

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Abstract content

VERITAS, the Very Energetic Radiation Imaging Telescope Array System, is an array of four 12 m diameter imaging atmospheric Cherenkov telescopes for gamma-ray astronomy above 100 GeV currently in operation in Arizona. The VERITAS Collaboration has developed VEGAS, the VERITAS Gamma-ray Analysis Suite, a data-analysis software package for the processing of single- and multiple-telescope data produced by the array. The package consists of a core of six stages as well as visualisation and diagnostic components. It has been developed in C++ using modern objected-oriented design patterns to be highly flexible, configurable and extendable. VEGAS utilises CERN's ROOT data-analysis framework and runs on Linux and Mac OS X systems. The architecture and structure of the VEGAS package will be described in detail while the data analysis algorithms are described in additional papers.

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

the VERITAS 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 1385-1388

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