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IceCube - construction status and performance results of the 22 string detector.

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Abstract content

The IceCube Neutrino Detector is a cubic kilometer ice-Cherenkov detector being constructed in the deep ice under the geographic South Pole. After a successful construction season ending in February 2007 IceCube consists of 22 strings and 26 IceTop stations with a total of 1424 Digital Optical Modules (DOMs) deployed at depths up to 2450m. This together with the commissioning of the central laboratory building and central DAQ electronics allowed IceCube to begin early operations and data analysis.

The goal is to complete cinstruction in the final configuration of 80 strings and IceTop stations in 2011. First results from the 22 string configuration and an overview of the project will be presented.

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

IceCube 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. 4 (HE part 1), pages 835-838

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