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First results of the new Muon Spaceweather Telescope for Anisotropies at Greifswald (MUSTAnG).

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Abstract content

A new Muon Spaceweather Telescope for Anisotropies dedicated to spaceweather forecast is presently under construction in Greifswald (MuSTAnG), Germany. MuSTAnG in its present configuration consists of 8 m² (2 x 4 m²) of scintillator plates in 2 layers. Each scintillator plate has a size of 0.25 m² and is connected via wavelength-shifting fibres to a photomultiplier unit with integrated high-voltage supply and built-in pre-amplifier. Output pulses are discriminated and further processed by a field-programmable gate array (FPGA).

MuSTAnG became first operational during December 2006. First results including the 14 December 2006 spaceweather event are reported.

If this paper is presented for a collaboration, please specify the 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. 1 (SH), pages 347-350

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