

# **Space weather monitoring with the muon detector network upgraded for a full range coverage of the cosmic ray pitch angle**

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In December 2005, a world-wide network of muon detectors has been upgraded with an enlargement of a detector in Brazil. This enlargement increased the effective detection area for seven times and the count rate of muons recorded in the vertical viewing cone for about 6.5 times, respectively. A new recording system installed also increased the number of directional channels in which the number of muons is counted. In the present paper, we analyze the data after the enlargement and evaluate the initial performance of the network.