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Wavelet analysis of cosmic ray muon and neutron data

M.R. da Silva (1), E. Echer (1), W.D. Gonzalez (1), A. Dal Lago (1), L.E.A. Vieira (1), F.L. Guarnieri (1), A. De Lucas (1), N. J. Schuch (2) (1) Instituto Nacional de Pesquisas Espaciais, São Paulo, Brazil (2) Centro Regional Sul de Pesquisas Espaciais, Santa Maria, Brasil (marlos@dge.inpe.br / +55 12 3945-6808)

Many times series in geophysics may contain dominant periodic signals, these signals can vary in both amplitude and frequency over long periods of time. The wavelet analisys is a powerfull toll to spectral analyses of time series, because this analysis deconpose a time series into time/frequency space simultaneously. One gets information on both the amplitude of the interest periodic signal within the series, and how this amplitude varies with time. In this work we will make a wavelet analysis of muon and neutron cosmic ray and compare these two kinds of particles with each other, and will find the mainly periodicities in these time series.