



The Astroparticle Physics Conference 34th International Cosmic Ray Conference July 30 - August 6, 2015 The Hague, The Netherlands

Contribution ID: 513

Type: Poster contribution

The Infrastructure of the time series statistics analysis for the muon monitor

Saturday 1 August 2015 15:30 (1 hour)

To find a possible correlation between the muon / neutron counting rate and simultaneously registered solar activity, by using machine learning, we propose the semi-automatic forecasting algorithm for several physical process, e.g. Forbush decrease, GLE, and so on. These correlations have a complex form defined by the spatially and temporally ordered set of events at world-wide monitor stations and satellites. Different muon and neutron monitors hosting facilities around the world establish hierarchical date acquisition detectors. Our infrastructure with the proposed algorithm has also a fault tolerance checking mechanism for those detectors.

Collaboration

- not specified -

Registration number following "ICRC2015-I/"

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Session Classification: Poster 2 SH

Track Classification: SH-IN