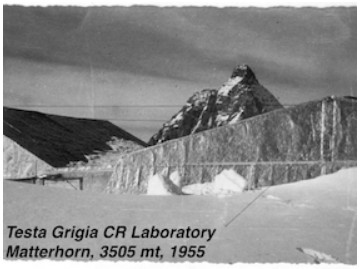

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Temperature effect observed by the Nagoya muon telescope.

Tuesday, 6 September 2016 16:30 (1h 45m)

The multidirectional muon telescope at Nagoya (35°09'N, 136°58'E) is the most successful at the point of construction multidirectional scintillation telescope. It is working since 1970 and has 17 independent directions: a vertical, on 4 inclined 30°, 49° and 64° and 4 azimuthal directions.
The temperature coefficients for all the directions of the Nagoya muon telescope were obtained using three main methods for the temperature effect calculation: the effective temperature method, the mass-average temperature method and the Duperier method. Also, using the long-term data (from 1986 to 2013) of the Nagoya telescope the set of the yearly temperature coefficients was obtained and analyzed.

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