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## Temperature effect observed by the Nagoya muon telescope.

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The multidirectional muon telescope at Nagoya ( $35^{\circ}09'N$ ,  $136^{\circ}58'E$ ) 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  $30^{\circ}$ ,  $49^{\circ}$  and  $64^{\circ}$  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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