Observations on sun's shadow by a tracking cosmic ray telescope

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Abstract
A cosmic ray tracking telescope has been made for the measurement of cosmic rays from different directions, especially those received from the sun direction. Our observations by the telescope shows a noticeable deficiency in the detected number of cosmic rays entering the telescope when its axis was pointing to the sun compared to that entering the telescope with no sun in its field of view. The statistical significance of this deficit with the Li and Ma method stands near $2\sigma$ for all of our observations.

Keywords: scintillation detector, cosmic ray, shadow of sun

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