

## **ESTIMATION OF THE SIDEREAL TIME ANISOTROPY OF COSMIC RAYS BY YAKUTSK EAS ARRAY DATA**

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The harmonic analysis in shower distribution by sidereal time by using all events registered by the Yakutsk array from October 1986 to May 2000 has been carried out. The estimation of an amplitude about  $10^{17}$  eV for more than  $10^6$  events selected by the trigger-500 is made, and about  $10^{18}$  eV the showers selected by the trigger-1000 are used. To determine the amplitude characterizing a degree of anisotropy of primary radiation we have analyzed the contribution due to both the non-uniform overview of celestial sphere by the array, and seasonal-diurnal variations in frequency of registered showers.