

QUEST: wide angle Cherenkov light measurements at EAS-TOP

EAS-Top collaboration , E. E. Korosteleva¹, L. A. Kuzmichev¹, V. V. Prosin¹, and B. K. Lubsandorzhev²

¹Scobeltsyn Institute of Nuclear Physics of MSU, Moscow, Russia

²Institute of Nuclear Research RAS, Moscow, Russia

Abstract. Wide angle Cherenkov light detectors based upon the QUASAR-370 photo-multipliers have been installed on five Cherenkov telescopes of the EAS-TOP array to study the energy spectrum and composition of primary cosmic rays around the knee . The energy threshold of quasars array was close to that of EAS-TOP electromagnetic detectors array.

The first results of joint analysis of Cherenkov and electromagnetic data together with the adequate CORSIKA simulation results are discussed.

Correspondence to: V. V. Prosin (prosin@dec1.sinp.msu.ru)