

STEREOSCOPIC CHERENKOV TELESCOPE SYSTEM SHALON ALATOO

V.G. Sinitsyna, T.P. Arsov, A.Y. Alaverdyan, S.S. Borisov, A.N. Galitskov, I.A. Ivanov, G.M. Kasparov, V.A. Klevalin, A.A. Malisko, F.M. Musin, R.M. Mirzafatihov, S.I. Nikolsky, I.V. Oblakov, G.F. Platonov, V.Y. Sinitsyna, S.L. Sharov

P.N. Lebedev Physical Institute, Russian Academy of Science,
Leninsky pr. 53, Moscow 117924, Russia

Observatory SHALON ALATOO is created by P.N. Lebedev Physical Institute for search and investigations the galactic and metagalactic sources, where it is possible the accelerations of protons and nuclei, their interactions with the environment and the generations of the gamma-quanta with energies >1 TeV was operated more than six years in mountains Alatoo (3338 m above sea level). The creation of stereo of two gamma-telescope SHALON-1 and SHALON-2, located on a distance of 260 m, is at the final stage and synchronous observations began March 2001. The observations of Cherenkov light will essentially improve distinction of gamma-quanta on a background of cosmic rays, down to the analysis of individual events.