

The experimental complex for complementary investigations of inclined EAS generated in cosmic ray nuclear interactions

Tuesday, August 28, 2018 3:45 PM (20 minutes)

Experimental complex NEVOD for investigations of cosmic rays in the energy interval (10^{15} - 10^{19} eV) is described. The composition of primary cosmic rays in the high energy region becomes heavier and interactions of these cosmic rays are nucleus-nucleus.

The complex consists of Cherenkov water detector with 2000 m^3 volume, coordinate-tracking detector DECOR with 70 m^2 area, array of scintillator detectors forming calibration telescopes system (CTS) and array of thermal neutron detectors PRISMA. Nowadays, NEVOD is being expanded with three new setups: NEVOD-EAS of 10^5 m^2 for determination of air shower axis, URAN for registration of neutrons in EAS, and coordinate-tracking detector TREK on drift chambers of 250 m^2 effective area.

The first part of new detectors is now under operation. Examples of detection of the first events by means of the combined array are discussed.

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Session Classification: Poster Session and Coffee Break

Track Classification: Cosmic Rays