

## **The response of the PRISMA-32 and NEVOD setups to the passage of the EAS**

*Monday, 22 October 2018 15:40 (150)*

The PRISMA-32 setup consists of two independently operating clusters which include sixteen scintillation-type en-detectors based on inorganic scintillator ZnSAg + LiF. Detectors of the setup are located on the fourth floor of the Experimental complex NEVOD building on the territory of the MEPHI. PRISMA-32 is deployed above the Cherenkov water calorimeter (CWC); the distance between the detectors is 2.5 m and 5 m, the total area of the setup is  $\sim 500$  m<sup>2</sup>. The PRISMA-32 registers two main EAS components - electron-photon and neutrons - throughout the setup area. The CWC is a water tank with a volume of 2000 cubic meters in which the registration system of 91 quasispherical modules with six FEU-200 photomultipliers looking in different directions is deployed. The responses of the two presented detectors to the passage of the EAS are analyzed.

**Primary author(s)** : BOGDANOV, Fedor

**Co-author(s)** : GROMUSHKIN, Dmitry (MEPHI); Mr. BULAN, Alexander

**Presenter(s)** : BOGDANOV, Fedor

**Session Classification** : Poster session and coffee-buffet

**Track Classification** : Particle physics: astroparticle physics