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Detection of extensive air showers with the NEVOD-EAS array cluster

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In 2015-2016 in MEPhI (Moscow, Russia) on the basis of the Scientific and Educational Center NEVOD the central part of a new cluster type array NEVOD-EAS for the determination of size, arrival direction, axis position of extensive air showers with energies of 10ˆ15 – 10ˆ17 eV was created and launched. Central part of the setup includes 4 clusters of scintillation detector stations located around the complex of detectors NEVOD and DECOR at the area of about 10ˆ4 mˆ2. Studies of amplitude and time parameters of cluster response, as well as EAS registration are being conducted. The express analysis of experimental data and monitoring of operating parameters are being performed. The results of studying of the setup operating parameters and analysis of experimental data obtained during continuous series of measurements on the registration of extensive air showers with the central part of NEVOD-EAS are presented.

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