

TIME DETECTORS WITH HIGH RESOLUTION FOR STUDY EXTENSIVE AIR SHOWERS FRONT

A system comprising five pyramid-shaped scintillation detectors (500 mm × 500 mm) has been developed to determine the direction of extensive air shower axes by time delays. The detectors' compact design and ease of assembly enable the construction of a chronotron setup. This system is situated at the Tien-Shan High Altitude Scientific Station (TSHASS) at an elevation of 3340 meters above sea level near Almaty, Kazakhstan. This paper discusses the current state and characteristics of the detectors.

Section

Nuclear physics (Section 1)

Primary author: BAKTORAZ, Aliya (Institute of Nuclear Physics)

Co-authors: KALIKULOV, Orazaly (INP); SADUYEV, Nurzhan (Institute of Nuclear Physics); YEREZHEP, Nurzhan (Institute of Nuclear Physics); SHINBULATOV, Saken (INP RK&Al-Farabi KazNU); UTEY, Shynbolat (KazNu after al- Farabi); SOPKO, Ivan (Al-Farabi KazNU); Mr MUKHAMEJANOV, Yerzhan (Institute of Nuclear Physics)

Presenter: BAKTORAZ, Aliya (Institute of Nuclear Physics)

Track Classification: The V International Scientific Forum “Nuclear Science and Technologies”: Nuclear physics (Section 1)