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Study of the spatiotemporal structure of extensive air showers at high energies

High-mountain scientific researches in the field of high energies are being carried out at the Tien Shan High Altitude Scientific Station (TSHASS) in collaboration with al-Farabi Kazakh National University. The interest in these studies is mainly connected with two insufficiently studied directions, which can significantly change the interpretation of the spectrum of cosmic rays not only in the high-energy region, but also in the ultra-high-energy region. These studies of the penetrating component of cosmic rays in the region of the so-called knee in the spectrum of cosmic rays are the HADRON experiment and the study of the extended air showers (EAS) with several fronts separated by hundreds of nanoseconds from the leading front —the Horizon-T experiment

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