

## **SPACE EXPERIMENT "TUS" FOR STUDY OF ULTRA HIGH ENERGY COSMIC RAYS**

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The telescope with mirror area  $1.5 \text{ m}^2$ , focal distance 1.5 m, with a retina of pixels (photo multipliers) in its focal plane is designed for observation of the Earth atmosphere fluorescence from orbit of the space platform "Resurs DK1"; (apogee height- 650 km, perigee height 350 km). Cosmic ray particles of ultra high energy (energy more than  $3 \times 10^{19} \text{ eV}$ ) produce fluorescent tracks in atmosphere that will be detected by the telescope. The goal of the experiment is to study ultra high energy cosmic rays and to reveal their sources.