



Contribution ID : 226

Type : Oral talk

## Simulation of the horizontal and upward going EASs with $E > 10^{19}$ eV for the orbital experiments

*Friday, 25 October 2024 17:45 (12)*

The TUS experiment is the first orbital detector designed to measure Cherenkov and fluorescent radiation from extensive air showers in the Earth's atmosphere. The TUS detector has registered a number of anomalous events of an unusual nature. One of the possible interpretations of these events is upward going EAS initiated by ultra high energy cosmic tau-neutrinos. The JINR is considering the project of the IVGSHAL orbital experiment, designed to study upward going and horizontal EAS. In the presented work, a method of parametric modeling of upward going EAS is presented.

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**Session Classification :** Astroparticle

**Track Classification :** Astroparticle physics