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GRB Observations on Cubsate Satellites in the "Universat-SOCRAT" Project

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Lomonosov Moscow State University Universat-SOCRAT program is aimed at using small satellites to monitor space threats
These satellites are equipped with instruments for space radiation monitoring, as well asprototypes of devices for observing transient phenomena in the Earth's atmosphere.
In particular, two satellites are equipped with scintillation phosphich detectors that detect charged particles and gamma quanta in the energy release range of 0.1–2 MeV.
The geometric factor of these instruments is≈50cm2·sr.
One of the Cubesats also carries an optical photometer, consisting of four silicon photomultipliers,which entrance windows are covered with different lightfilters.
First satellites were launched into solar-synchronous orbits with an altitude of≈550k from the Vostochny cosmodrome. This makes favorable conditions for space radiation monitoring in various areas of near-Earth space, including zones of trapped radiation, areas of precipitation,etc. Such an orbit also allows observations offlare phenomena both in the equatorial atmosphere and at high latitudes. The first results are discussed.

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