ISTP SB RAS experimental facilities: current state and future of the study of space weather extreme events on the Earth’s ionosphere

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Space weather significantly impacts on human technological infrastructure: the more we domesticate near-Earth space, the more we need accurate information about it. Institute of Solar-terrestrial Physics SB RAS (ISTP SB RAS) has set up a multi-instrument complex to study near-Earth space and is deploying unique project of the National Helio-geophysical Complex of the Russian Academy of Sciences. The talk will show (on behalf of the large ISTP SB RAS collaboration) new facilities of the complex and its potential to study the effects of space weather events using the example of the May 2024 magnetic storm.