

THE NEW RADIO SPECTROPOLARIMETERS FOR SOLAR ACTIVITY OBSERVATIONS

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At the end of 2023 the new instrument, dedicated to solar activity studies, started its operation — the Siberian Radioheliograph (SRH). The SRH consists of three T-shaped redundant-spacing antenna arrays and auxiliary instruments — the total flux spectropolarimeters operating in frequency ranges of 3–24 GHz and 50–3000 MHz. The spectropolarimeters are meant to expand the SRH data by obtaining additional spectral measurements with finer time resolution. The spectropolarimeters data will provide more information on the most geoeffective solar activity phenomena — coronal mass ejections (CMEs) and flares. In the report the specifications of the spectropolarimeters and the results of test observations are presented. The comparison of the new spectropolarimeters data with the other instruments data is carried out.