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Determination of Stokes parameters using by rotating spacecraft for case of strong intensity fluctuations of observed emission

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New technique to determine the Stokes parameters of space emission using by rotating spacecraft for case of strong intensity fluctuations is presented. Some examples of calculation for the SURA emission observed by WIND/WAVES/RAD2 (SUM antenna configuration, fixed frequency mode) at 8925 kHz are illustrated.

Obtained results can be used to study of polarization status of the SURA antenna, wave propagation effect of power radio emission as well as Faraday effect in the Earth ionosphere. A possibility to use the technique for investigation of Jupiter's emission by WIND WAVES is discussed too.

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