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# Study of gas-discharge stratified plasma using the Phywe Measure environment

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*The article describes the results of the stratified hydrogen plasma study, conducted on the "Plasma" installation, adapted for the use of complex of equipment from the Phywe company. Processing the experimental data was carried out in a Phywe Measure software environment, which allows simplifying processing and increasing the accuracy of the calculation of stratified hydrogen discharge plasma parameters. The presented experimental results concerning the registration of local plasma parameters, depending on the specific discharge power, allow the identification of striations observed in the framework of the kinetic theory of stratification.*

**Keywords:** hydrogen plasma, discharge stratification Phywe Measure, Cobra 3 Basic-Unit, experiment automation, plasma parameters, kinetic resonance of electron distribution function.

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