

IDENTIFICATION OF SPURIOUS PEAKS  
AT THE UHF REFLECTOMETRY OF PLASMA  
PRODUCED BY HF METHOD

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S u m m a r y

Using computer modeling, we have established an analytical dependence of the actual signal frequency,  $F_X$ , on the frequency of a spurious signal,  $F_{\text{obs}}$ , which arises in the processing of experimental data due to the manifestation of the known phenomenon “disguise of frequencies”. The method of authentication of spurious peaks is suggested. The efficiency of the method was confirmed in the real experiment when investigating the dynamical characteristics of harmonics of an HF generator used for producing and heating a plasma in the stellarator-type fusion device U-3M. The results can be applied also to the future experiments on the production and heating of an HF plasma in the U-2M torsatron.