

INVESTIGATION OF THE PROCESS OF
EXCITATION OF MERCURY MONOBROMIDE
AND MONOCHLORIDE EXCIMER MOLECULES
IN DENSE GAS-DISCHARGE PLASMA

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S u m m a r y

The investigations of radiation spectra, time responses of a current and radiation of the gas-discharge plasma on the mixtures of mercury dibromide and dichloride vapours with helium have been carried out. The plasma was created by barrier discharge at a pump pulse repetition frequency of 1000 Hz. We establish that the excitation mechanism of mercury monobromide and monochloride excimer molecules doesn't change up to $f=1000$ Hz. The existence of the supplementary process of filling the $B^2\Sigma_{4/2}^+$ state of mercury monohalogenides is confirmed.