

AC STARK EFFECT INFLUENCE  
ON MECHANISM OF FORMATION  
OF DOUBLY CHARGED IONS

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S u m m a r y

It's shown that the additional strong perturbation of Ba atoms in the process of ionization by radiation in the visible spectral range (radiation of the second harmonics of an YAG laser) leads to a variation of the mechanism of formation of doubly charged ions from the stepwise to two-electron one. The yield of  $Ba^{2+}$  ions under such conditions is sharply increased.