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e-mail: stogniynad87@mail.ru, . 0978445076

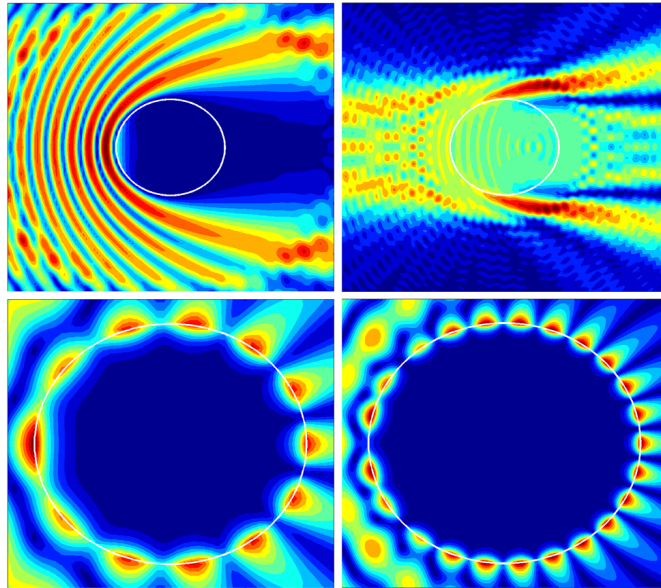
In this work, a 2D problem of electromagnetic field evolution due to creation of cylindrical plasma inhomogeneity is theoretically investigated.

It is revealed that the variation in time of material properties in a bounded object leads to the transformation of the field pattern and recovering of the field frequency to the frequency of initial wave. Possibilities of transmission of the wave through the plasma object and formation of the shadow region behind it are discussed. The excitation of the surface plasmons has also been shown.

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) $\omega_p / \omega = 0.5, \lambda = 0.1\pi R$;) $\omega_p / \omega = 2, \lambda = 0.4\pi R$;) $\omega_p / \omega = 2, \lambda = 0.2\pi R$.

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 $\omega_p / \omega = 1.1 \quad \lambda = 0.2\pi R$. 1()
 $\omega_p / \omega = 0.5 \quad \lambda = 0.1\pi R$ -

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