

# **Annotation**

The paper considers the evolution of the frequency-angular structure of radiation during superfilamentation of femtosecond laser radiation in air. The transformation of the frequency-angular structure of superfilament radiation, which is formed as a result of spatial interaction effects between several filaments in regularized multifilamentation regime in the air, as well as the influence of the laser pulse energy and additional focusing on the spectral and spatial characteristics of superfilament radiation, are considered.