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Title:A Terahertz Orotron with Double-Row Periodic Structure and Broad Electron Beam

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Abstract:An orotron for the 140-300 GHz range with a double-row periodic structure on a spherocylindrical focusing mirror, the generatrix of which is parallel to the electron beam, has been experimentally studied. It is demonstrated for the first time that the output power of the orotron can be increased by increasing the electron beam width.

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