

434. Title:Third Harmonic Lasing on Terahertz NovoFEL

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Source title:Journal of Infrared, Millimeter, and Terahertz Waves

Issue date:2011

Publication year:2011

Pages:1-7

Language:English

Document type:Article in Press

Abstract:The lasing at the third harmonic of the fundamental frequency, at a wavelength of about 70 μm, was recently achieved on Novosibirsk terahertz free electron laser. Choosing various optical resonator losses for the fundamental and third harmonics as well as the resonator length, one can force the lasing to occur at both the frequencies simultaneously or at either of them alone.