

Contents

Vol. 43, No. 7, 2016

Simultaneous English language translation of the journal is available from Allerton Press, Inc.
Distributed worldwide by Springer. *Bulletin of the Lebedev Physics Institute* ISSN 1068-3356.

Acceleration of Methane–Oxygen Mixture Ignition by Adding Singlet Oxygen Produced
in a Chemical Generator

N. P. Vagin, I. V. Kochetov, A. P. Napartovich, and N. N. Yuryshev 211

Application of Optoelectronic Negative Feedback to Ordering of the Temporal Structure
of the Diode-Pumped Nd:YLF Laser Radiation

M. V. Gorbunkov, Yu. Ya. Maslova, V. G. Tunkin, Yu. V. Shabalin, and D. V. Yakovlev 217

Spatial Distribution Function of Electrons and Thermal Neutrons in Extensive Air
Showers at Sea Level

O. B. Shchegolev and Yu. V. Stenkin 223

Study of the Algorithm for Time-Frequency Analysis of the Measurement Series of Night
Mesospheric Ozone Emission Spectra at Millimeter Waves

S. B. Rozanov, A. S. Zavgorodniy, and A. N. Ignat'ev 228

Density and Velocity Distribution Function for Freely Expanding Matter

A. M. Ignatov and S. A. Trigger 232
