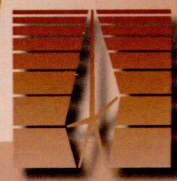


TECHNICAL PHYSICS



С.-Петербург
ФТИ им. А.Ф. Иоффе

Матфизика и численные методы

- Gubsky D.S., Zemlyakov V.V., Krutiev S.V., Lonkina D. V.
Analysis of the sensitivity of circular waveguide filter performance to manufacturing tolerances 2135
- Krymov V. M., Galaktionov E. V., Bakholdun S.I., Shapenkov S. V.
Thermoelastic stresses in slip systems of ribbon gallium oxide crystals grown from a melt by the Stepanov method (EFG) 2140
- Rozenblit A. D., Olekhno N. A.
Theoretical model for photonic topological insulator based on a cubic lattice of bianisotropic resonators 2145
- Boitsova N. A., Abelit A. A., Verlov N. A., Stupin D. D.
High-resolution impedance spectroscopy: application to the study of semiconductor devices and estimating of their efficiency for application in bioelectronics 2149
- Khrapov S. S., Khoperskov A. V., Khrapov N. S.
Numerical Modeling of Shock-Wave Structures in Supersonic Flows of Non-Equilibrium Vibrationally Excited Gas 2153

Астрономия и астрофизика

- Pashkevich V. V., Vershkov A. N.
Peculiarities of relativistic rotation of solar system bodies, using some of Jupiter's satellites as an example 2158
- Martyusheva A. A. , Devyatkin A. V., Petrova S. N.
Asteroid 2024 PT5: Earth's "satellite" for two months 2162
- Melnikov A. V.
On the stability of orbital dynamics of exoplanet satellite candidates 2166
- Lukyantsev D.S., Afanasiev N.T., Tanaev A.B.
Mathematical modeling of influence of plasma and gravitational inhomogeneities on refraction of cosmic radiation 2169
- Zagidullin A.A., Nefedyev Y.A., Petrova N.K., Jiangau Y., Andreev A.O.
Development of a Method for Analyzing Lunar Laser Ranging Data 2173
- Ogurtsov M.G.
On the possible influence of the solar quasi-bicentennial cycle on the temperature of the Earth's Northern Hemisphere 2177
- Dmitriev P. B., Dranevich V. A.
Investigation of the dynamics of the oscillations of the light curve of the γ -burst GRB 240825A 2180
- Andreev A.O., Nefedyev Y.A., Kolosov Y.A.
The Development of a Synthetic Method for Planetary Object Recognition Based on Neural Networks

Ivanova A. L., Astapov I. I., Bezyazeev P. A., Bulan A. V., Blinov A., Borodin A. N., Budnev N. M., Busygin P. V., Volkov N. V., Volchugov P. A., Voronin D. M., Gafarov A. R., Garmash A. Yu., Grebenyuk V. M., Gress O. A., Gress T. I., Gress E. O., Grinyuk A. A., Grishin O. G., Dyachok A. N., Erofeeva V. A., Zhurov D. P., Zagorodnikov A. V., Zirkashvili V., Ivanova A. D., Iliushin M. A., Kabannik I. A., Kalmukov N. N., Kindin V. V., Kiryukhin S. N., Kozhin V. A., Kompaniets K. G., Korosteleva E. E., Kravchenko E. A., Kryukov A. P., Kuzmichev L. A., Chiavassa A., Lagutin A. A., Lemeshev Yu. E., Lubsandorzhiev B. K., Lubsandorzhiev N. B., Lukanov A., Malakhov S. D., Mirgazov R. R., Monkhoev R. D., Okuneva E. A., Osipova E. A., Pan A., Panov A. D., Pankov L. V., Pakhorukov A. L., Petrukhin A. A., Poddubny I., Poleschuk V. A., Popova E. G., Postnikov E. B., Prosin V. V., Pushnin A. A., Raikin R. I., Razumov A. Yu., Rubtsov G. I., Ryabov E. V., Satyshev I., Samoliga V. S., Sveshnikova L. G., Sidorenkov A. Yu., Silaev A. A., Silaev A. A. (junior), Skurikhin A. V., Sokolov A. V., Tabolenko V. A., Tanaev A. B., Ternovoy M. Yu., Ushakov N. A., Shaikovsky A., Shulga M. V., Yashin I. I.

Model assessment of accuracy of the Tunka-Grande array data reconstruction

2188

Sergienko M. V., Nefediev Y. A., Andreev A. O.

Orbital evolution of near-earth asteroids associated with the april chi-librid meteor shower

2194

Popov A. N., Barsukov D. P., Ivanchik A. V., Bobashev S. V.

The accumulation of postirons produced due to interaction of background optical and gamma photons

2199

Barsukov D. P., Popov A. N.

The influence of inclination angle on J0901-4046 radiopulsar polar cap heating

2203

Shabalin A. N., Charikov Yu. E., Sklyarova E. M.

Analysis of the subsecond structure of X-ray and radio bursts in solar flares

2207

Mikhailov E. A., Zheligovsky V. A., Taranyuk A. A., Frolova M. V.

Spectral problems in galactic dynamo theory: asymptotic and numerical approaches

2211

Andreeva T. A., Bykov N. Y., Zakharov V. V., Lukin A. Ya., Shmyr D. S.

Heating and destruction of the porous surface layer of a cometary nucleus

2215

Budnev N., Kuzmichev L., Astapov I., Bezyazeev P., Blinov A., Borodin A., Bulan A., Besygin P., Volkov N., Volchugov P., Voronin D., Gafarov A., Garmash A., Goman G. S., Grebenyuk V., Gres O., Gres T., Gres E., Grinyuk A., Grishin O., Dyachok A., Zhurov D., Zagorodnikov A., Zirkashvili V., Ivanova A. D., A. L. Ivanova, Ilushin M., Kalmykov N., Kindin V., Kiryukhin S., Kozhin V., Kompaniyets K., Korosteleva E., Kravchenko E., A. Kryukov, Kiawassa A., A. Lagutin, Yu. Lemeshev, B. Lubsandorzhiev, N. Lubsandorzhiev, S. Malakhov, R. Mirgazov, R. Monkhoev, E. Okuneva, E. Osipova, A. Pan, A. Panov, L. Pankov, A. Pakhorukov, A. Petrukhin, V. Poleschuk, E. Popova, E. Postnikov, V. Prosin, A. Pushnin, R. Raikin, A. Razumov, G. Rubtsov, E. Ryabov, Satyshev I., V. Samoliga, L. Sveshnikova, Sidorenkov A., Silaev A., Silaev (junior) A., Skurikhin A., Sokolov A., Tabolenko V., Ternovoy M., Ushakov N., Shaikovsky A., Shulga M., Yashin I.

TAIGA experiment new results and development prospects

2219

V. S. Samoliga

Observations of the Boomerang Nebula with the TAIGA-HiSCORE facility

2225

Ananov Y. O., Kurichin O. A., Ivanchik A. V.

Simulation of the extended base of emission lines in the spectra of HII regions

2230

Fursov A. N., Levenfish K. P., Ponomarev G. A.

On a previously unknown X-ray feature of the Vela Nebula

2234

Mubarakshina R. R., Nefediev L. A., Andreev A. O., Nefediev Y. A., Chukhlantseva E. A.

Development of a physical model of saturn's moon enceladus using data from the cassini mission

2238

Khasaeva T. T., Mikhailov E. A.

Аэро- и гидродинамика

Kuzmin A. G.

Instability of local supersonic regions on an airfoil with a spoiler

2245

Kudryashova O. B., Shalunov A. V., Titov S. S., Titova N. V.

Mechanisms of cavitation fragmentation of aerosol droplets in an ultrasonic field

2249

Pavlenko O.V., Trinh Thang Ngoc

Numerical studies of the interference feature of biplane wings and tandem wings of aircraft

2252

Belousov I. U., Pavlenko O. V., Fevralskih A.V., Kinsa S.B., Ye Htun

Numerical studies of reducing the influence of adverse meteorological conditions on the aerodynamic characteristics of the wing profile

2255

Chernyshev A. S., Schmidt A. A.

On the applicability of the monodisperse medium model in numerical studies of flows in bubble columns

2258

Pigusov E. A., Volkov A. I., Krutov A. A., Kuzin S. A.

Parametrical study of long-haul aircraft high-lift devices on small-scale half-model

2262

Obraztsov N.V., Bykov N.Y., Surov A. V.

Effect of turbulence on the parameters of the plasma flow in a high-voltage AC plasma torch

2266

Публикация материалов Конференции завершена.

Теоретическая и математическая физика

Magomedov M. N.

Temperature dependence of Debye frequency and Gruneisen parameter in the low temperature range

2270

Gases and Liquids

Lapushkina T. A., Azarova O. A., Reshetova E. V., Belov K. I.

Influence of the near-surface plasma area on a supersonic flow past a semi-cylinder in different gases

2276

Solid State

Chuvil'deev V. N., Gryaznov M. Yu., Shotin S. V., Nokhrin A. V., Likhnikitskii C. V., Shadrina I. S., Chegurov M. K., Kopylov V. I., Bobrov A. A.

Superplasticity of ultrafine-grained Al-Mg-Sc-Zr alloys with different Mg, Sc, Zr content

2289

Electrophysics

Благодарности

Acknowledgements to article reviewers