ŋqqqaeY pƎ dəqƎpYɜe d ɛɑɔpɔy ɟqqqYqè

Журнал Сибирского федерального университета
Journal of Siberian Federal University 2015 8(1)

Математика и Физика
Mathematics & Physics

Редакционный совет:
академик РАН
Е.А. Ваганов
академик РАН
И.И. Гительзон
академик РАН
А.Г. Дегерменджи
академик РАН
В.Ф. Шабанов
чл.-корр. РАН,
д-р физ.-мат. наук
В.В. Зуев
чл.-корр. РАН,
д-р физ.-мат. наук
В.Л. Миронов
чл.-корр. РАН,
д-р техн. наук
Г.Л. Пашков
чл.-корр. РАН,
д-р физ.-мат. наук
В.В. Шайдуров
Editorial Advisory Board
Chairman:
Eugene A. Vaganov

Members:

Josef J. Gitelzon

Vasily F. Shabanov

Andrey G. Degermendzhy

Vladimir V. Zuev

Valery L. Mironov

Gennady L. Pashkov

Vladimir V. Shaidurov

Свидетельство
о регистрации СМИ
ПИ № ФС77 - 28724
от 29.06.2007 г.

CONTENTS

V.K. Andreev
The 2D Motion of Perfect Fluid with a Free Surface
3-6

S.I. Burkov, O.P. Zolotova, P.P. Turchin
Influence of Uniaxial Pressure on Elastic Waves Propagation in Piezoelectric Layered Structures „Y-cut langasite/fused silica“
7-21

N.S. Chernikov
Some Minimal Conditions in Certain Extremely Large Classes of Groups
22-27

F.T. Ishankulov
Mean Value Theorem for Harmonic Functions on Cayley Tree
28-30

I.D. Ivantsov, S.G. Ovchinnikov
Cluster Perturbation Theory for 2d Ising Model
31-37

A.Sh. Lyubanova
On an Inverse Problem for Quasi-Linear Elliptic Equation
38-48

A. Molkhasi
The Tensor Product and Quasiorder of an Algebra Related to Cohen-Macaulay Rings
49-54

Редакторы: **В.Е. Зализняк, А.В. Щуплев**
Компьютерная верстка: **Г.В. Хрусталева**
Подписано в печать 20.02.15 г. Формат 84×108/16. Усл.печ. л. 11,7.
Уч.-изд. л. 11,1. Бумага тип. Печать офсетная.
Тираж 1000 экз. Заказ 321
Отпечатано ПЦ БИК СФУ. 660041, Красноярск, пр. Свободный, 82а.

ŋqqqaeY pƎ dəqƎpYɜe d ɛɑɔpɔy ɟqqqYqè

Editorial Board:
Editor-in-Chief:
Michail I. Gladyshev
Founding Editor:
Vladimir I. Kolmakov
Managing Editor:
Olga F. Aleksandrova
Subject Editor for Mathematics & Physics:
Prof. Alexander M. Kytmanov
(SibFU, Krasnoyarsk, Russia)
Consulting Editors Mathematics & Physics:
Prof. Lev Aizenberg
(Bar-Ilan Univ., Tel-Aviv, Israel)
Prof. Viktor K. Andreev
(ICM, Krasnoyarsk, Russia)
Prof. Alexander M. Baranov
(KSP Univ., Krasnoyarsk, Russia)
Prof. Yury Ya. Belov
(SibFU, Krasnoyarsk, Russia)
Prof. Sergey S. Goncharov
(IM, Novosibirsk, Russia)
Prof. Ari Laptev
(KTH, Stockholm, Sweden)
Prof. Vladimir M. Levchuk
(SibFU, Krasnoyarsk, Russia)
Prof. Yury Yu. Loginov
(SibSASU, Krasnoyarsk, Russia)
Prof. Mikhail V. Noskov
(SibFU, Krasnoyarsk, Russia)
Prof. Sergey G. Ovchinnikov
(IPh., Krasnoyarsk, Russia)
Prof. Gennady S. Patrin
(SibFU, Krasnoyarsk)
Prof. Azimbay Sadullaev
(NUUz., Tashkent, Uzbekistan)
Prof. Nikolai Tarkhanov
(Potsdam Univ., Germany)
Prof. Avgust K. Tsikh
(SibFU, Krasnoyarsk, Russia)
Prof. Valery V. Val'kov
(IPh., Krasnoyarsk, Russia)
Prof. Yury V. Zakharov
(SibSTU, Krasnoyarsk, Russia)

D.G. Orlovsky — Parameter Determination in a Differential Equation of Fractional Order with Riemann–Liouville Fractional Derivative in a Hilbert Space — **55-63**

Č. Rozman, M. Kljajić, A. Škraba — System Dynamics Model for Conversion to Organic Farming — **64-74**

R.F. Shamoyan, S.M. Kurilenko — A Note on a Distance Function in Bergman Type Analytic Function Spaces of Several Variables — **75-85**

O.A. Shishkina — The Euler-Maclaurin Formula and Differential Operators of Infinite Order — **86-93**

A. Škraba, D. Kofjač, A. Žnidaršič, M. Maletič, Č. Rozman, E.S. Semenkin, M.E. Semenkina, V. Stanovov — Application of Selfconfiguring Genetic Algorithm for Human Resource Management — **94-103**

I.A. Timofeenko — Generation of the Chevalley Group of Type $\mathbf{G}_2$ over the Ring of Integers by Three Involutions Two of which Commute — **104-108**

A.S. Tsipotan, V.V. Slabko, A.S. Aleksandrovsky, N.V. Abuzova — Self-Assembly of Nanoparticles Controlled by Resonant Laser Light — **109-122**