



## KAZAN FEDERAL UNIVERSITY

**Russian Gravitational Society**  
**5-100 Russian Academic Excellence Project**

### **2<sup>nd</sup> INTERNATIONAL WINTER SCHOOL-SEMINAR ON GRAVITY, COSMOLOGY, AND ASTROPHYSICS «PETROV SCHOOL»**

***Kazan, 5 – 10 December 2016***

### **1st INFORMATION LETTER**

***Dear Colleague!***

We are happy to inform you that the 2<sup>nd</sup> International Winter School-Seminar on gravity, cosmology, and astrophysics «Petrov School» will take place from December, 5 to 10, 2016 in the Institute of Physics of Kazan Federal University.

The objective of the Winter Petrov School is to preserve and develop the high potential of the Russian scientific school in theory of gravity, astrophysics, cosmology and related areas of physics and mathematics.

Programme of the School will include lectures by the leading scientists. Young scientists participating the School will be able to present their research during the Seminar sessions.

**Working languages:** Russian, English

**School website:** <http://kpfu.ru/petrov-school-2016.html>

**School e-mail address:** [PetrovSchool@mail.ru](mailto:PetrovSchool@mail.ru)

**Registration:** An applicant should fill a registration form on the School website

### **LIST OF SCHOOL LECTURERS (PRELIMINARY)**

- A.A. Starobinsky (Landau ITP, Moscow, Russia), *Advanced topics on inflation*
- I.L. Buchbinder (TSPU, Tomsk, Russia), *Elements of supersymmetric field theory (Supersymmetry for beginners)*
- V.N. Melnikov (RUDN University, Moscow, Russia)
- M. Sami (*Centre for Theoretical Physics, New Delhi, India*)
- S. Capozziello (Napoli University, Italia)
- S.D. Odintsov (ICREA, Barcelona, Spain), *The unified inflation- dark energy evolution from modified gravities: new models*
- Shin'ichi Nojiri (Nagoya University, Japan)
- M.S. Volkov (Tour University, France)
- S.V. Chervon (Ulyanovsk Pedagogical University, Russia) *Scalar field cosmologies*
- I.F. Bikmaev (KFU, Kazan, Russia)
- A.V. Toporensky (Moscow University, Russia)

**INTERNATIONAL PROGRAMME COMMITTEE**

A.A. Starobinsky, academician of RAS, *chairman*

(Landau ITP, Moscow)

Prof. V.N. Melnikov, *co-chairman*

(president of the Russian Gravitational Society, VNIIMS and PFUR, Москва)

Prof. S.V. Sushkov, *co-chairman*

(head of the department of General Relativity and Gravity, KFU, Kazan)

M. Abishev (KNU, Almaty, Kazakhstan), A.V. Aminova (KFU, Kazan), V.B. Bagrov (TSU, Tomsk), A.B. Balakin (KFU, Kazan), A.M. Baranov (KSPU, Krasnoyarsk), V.A. Berezin (INR RAS, Moscow), I.F. Bikmaev (KFU, Kazan), G.S. Bisnovaty-Kogan (SRI RAS and MEPhI, Moscow), D.R. Brill (University of Maryland, USA), K.A. Bronnikov (CGFM, Moscow), I.L. Buchbinder (TSPU, Tomsk), S.V. Chervon (USPU, Ulyanovsk), J.C. Fabris (Universidade Federal do Espírito Santo, Vitoria, Brazil), V.P. Frolov (Edmonton University, Canada), D.V. Gal'tsov (MSU, Moscow), A.A. Grib (Friedmann Lab., St.-Petersburg), Yu.G. Ignatiev (KFU, Kazan), R. Kerner (University of Paris, France), Sung-Won Kim (University of Maryland, USA), P. Kuusk (University of Tartu, Estonia), V.N. Lukash (Astro Space Centre, Lebedev PI, Москва), A.V. Minkevich (Minsk University, Belarus), A.Yu. Morozov (ITEP, Moscow), V.M. Mostepanenko (Friedmann Lab., St.-Petersburg), Wei-Tou Ni (NTHU, Taiwan), Shin'ichi Nojiri (Nagoya University, Japan), S.D. Odintsov (ICREA, Barcelona, Spain), V.F. Panov (Perm University, Perm), N.A. Sakhbullin (KFU, Kazan), M.V. Sazhin (Sternberg Astron. Inst., Moscow), D. Singleton (California State University, Fresno, USA), Yu.S. Vladimirov (MSU, Moscow), A.P. Yefremov (PFUR, Moscow), A.V. Yurov (BFU, Kaliningrad), O.B. Zaslavsky (Kharkov Nat. University, Ukraine), A.I. Zhuk (Odessa Nat. University, Ukraine)

#### **LOCAL ORGANIZING COMMITTEE**

*Chairman:* Prof. S.V. Sushkov ([sergey\\_sushkov@mail.ru](mailto:sergey_sushkov@mail.ru), [sergey.sushkov@kpfu.ru](mailto:sergey.sushkov@kpfu.ru))

*Scientific secretary:* Dr. A.Ye. Zayats ([Alexei.Zayats@kpfu.ru](mailto:Alexei.Zayats@kpfu.ru))

*Members of the committee:* A.V. Aminova, A.B. Balakin, I.F. Bikmaev, V.A. Popov, A.Yu. Kuznetsova, A.A. Popov, G.A. Seryakin, Dr. T.Yu. Alpin, R.N. Kashapov, R.A. Abzalov

#### **VISA**

Foreign participants must have a valid passport and may need a visa for entry into the Russian Federation. An official invitation letter which is needed when applying for the visa will be prepared by the organizing committee for registered participants. To prepare an invitation we need the following information:

- copy of valid passport (as a pdf- or jpg-file)
- official address of your place of work and your position
- phone number
- name of a city where a Russian Embassy or Consulate is located and where you will apply and then obtain a visa
- dates of visit

As the process for obtaining a visa takes time, please request the invitation letter as soon as possible!

**REGISTRATION FORM**  
2<sup>nd</sup> International Winter School-Seminar  
on gravity, cosmology, and astrophysics  
«Petrov School»  
KFU, Kazan, December 5-10, 2016

Name (Prof/Dr/Mr/Ms):

First names:

Position:

Institution:

Address for conference communication:

Postcode:

Phone:

E-mail:

Title of report (1):

Title of report (2):

Scientific supervisor (for students): S.V. Chervon (Ulyanovsk Pedagogical University, Russia)

*Scalar field cosmologies*