The International course of lectures by

Prof.Dr. Maxim Yu. Khlopov and Prof. Dmitri Semikoz

"Introduction to cosmoparticle physics"

with the use of VIA facility opens the regular course

in the programme of Russian National Research Nuclear University MEPHI to the World audience as

Open Online Course.

This year the course is included in the International PhD programme on Fundamental physics.

The course is given on Mondays,

starts on Monday 12 February 2018 and contains

12 February

14.00-16.25 Paris time (16.00-18.25 MT)

Lecture 1. M. Khlopov ''Frontiers of particle physics''

19 February

14.00-16.25 Paris time (16.00-18.25 MT)

Lecture 2. M. Khlopov '' BSM physics of Inflationary models with baryosynthesis and dark matter ''

26 February

14.00-16.25 Paris time (16.00-18.25 MT)

Lecture 3. M. Khlopov ''Cosmoarcheology (cosmological probes for particle physics)''

5 March

14.00-16.25 Paris time (16.00-18.25 MT)

Lecture 4. D.Semikoz ''Cosmic rays''

12 March

14.00-16.25 Paris time (16.00-18.25 MT)

Lecture 5. D.Semikoz ''Gamma-ray astronomy''

19 March

14.00-16.25 Paris time (16.00-18.25 MT)

Lecture 6. M. Khlopov ''Cosmophenomenology of new physics''

26 March

15.00-17.25 Paris time (16.00-18.25 MT)

Lecture 7. D.Semikoz ''Neutrino Astrophysics''

2 April

15.00-17.25 Paris time (16.00-18.25 MT)

Lecture 8. D.Semikoz ''Gravitational waves and multi-messenger astronomy''

9 April

15.00-17.25 Paris time (16.00-18.25 MT)

Lecture 9. M. Khlopov ''Indirect and Direct Dark matter searches''

16 April

15.00-17.25 Paris time (16.00-18.25 MT)

Lecture 10. M. Khlopov ''Dark atoms''

23 April

15.00-17.25 Paris time (16.00-18.25 MT)

Lecture 11. M. Khlopov ''Brane world cosmology''

30 April

15.00-17.25 Paris time (16.00-18.25 MT)

Lecture 12. M. Khlopov ''Cosmoparticle physics - the fundamental realtionship of cosmology and particle physics ''

Owing to the interactive character of this course additional lectures and individual consultations are possible

To be admitted to exam the participants should be registered on VIA Forum and must put the topic

and then versions of their small thesis, being corrected following professor's comments, as posts

in the current directory Education, in which records of the lectures of the course will be also put.

The estimation of such thesis determines 70% of the final mark.

The lectures and exam proceed online in the form of videoconference with the use of

adobe Connect system.

To enter the virtual lecture room it is sufficient to click "to participate" on

any announcement of VIA lecture on the homepage

<http://viavca.in2p3.fr/site.html>

and then

Enter as Guest - print your name.

You are welcome to join us in this exciting educational experiment