International Program Comittee

Chin-Kun Hu (IP, Academia Sinica, Taipei)
Edik Ayryan (Laboratory of IT, JINR, Dubna)
Michal Hnatic (BLTP, JINR, Dubna)
Yuri Lobanov (Laboratory of HEP, JINR, Dubna)
Igor Puzynin (Laboratory of IT, JINR, Dubna)
Leonid Sevastyanov (PFUR, Moscow)
Jan Busa (TU of Kosice, Kosice)

Local Organizing Committee

Edik Ayryan (JINR-LIT) – chairman,
A. Ayriyan (JINR-LIT), M. Hnatic (JINR-BLTP),
I. Zhuravleva (JINR-ICD), M. Kirakosyan (JINR-LIT),
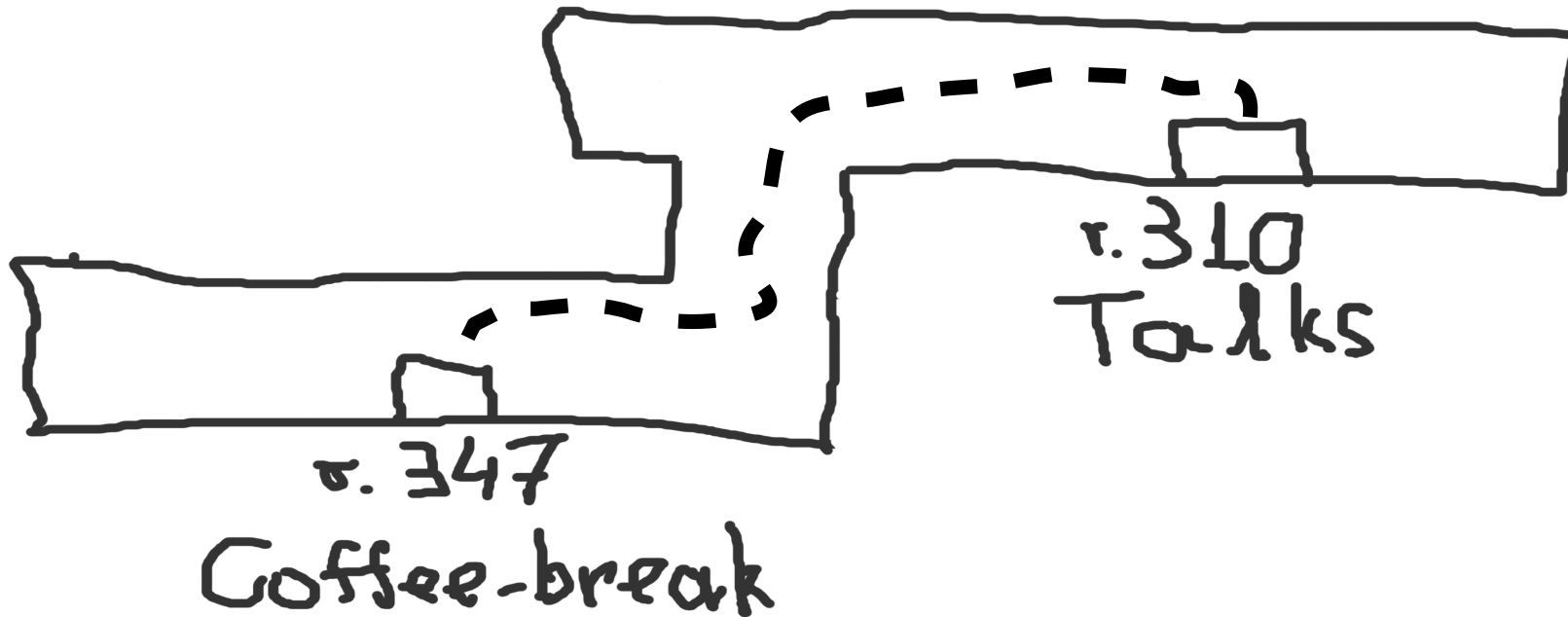V. Airiian (Dubna University),
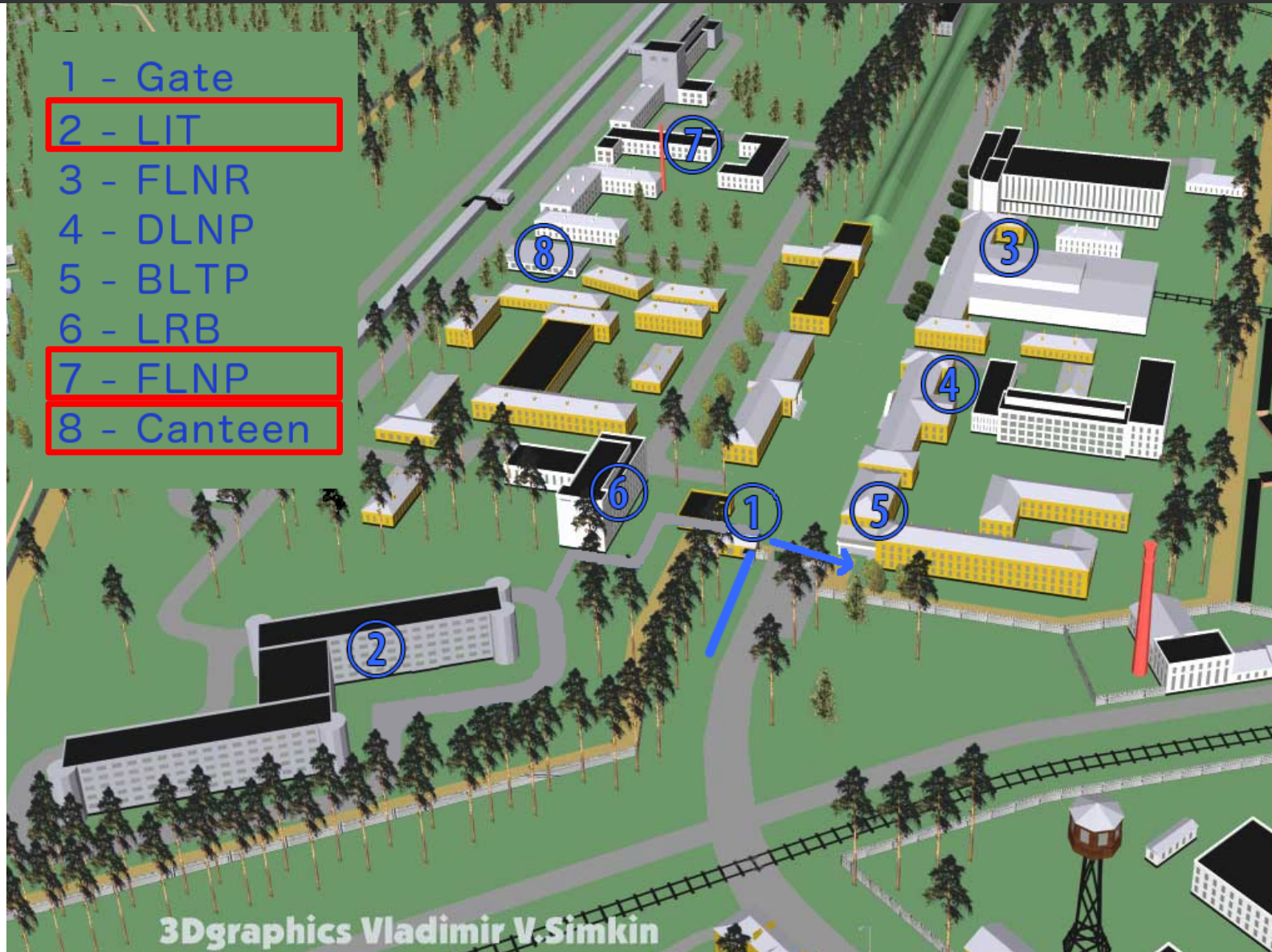D. Stankus (JINR-LIT), Sh. Torosyan (JINR-LIT)

The picture is taken from lit.jinr.ru

3ʳᵈ floor

r. 310
Talks

r. 347
Coffee-break

1 - Gate
2 - LIT
3 - FLNR
4 - DLNP
5 - BLTP
6 - LRB
7 - FLNP
8 - Canteen

3Dgraphics Vladimir V. Simkin

Thursday, 27 August 2015

09:00 - 09:30   **Registration**

Convener: Ms. Shushanik Torosyan (LIT)

Location: 310

09:30 - 10:00   **Opening**

10:00 - 10:30   **Nonlinear spinor fields in in anisotropic cosmological models: Theory and observation** *30'* (room 310)

Speaker: Dr. Bijan Saha (Laboratory of Information Technologies, Joint Institute for Nuclear Research)

10:30 - 11:00   **Symbolic-Numerical Solution of Boundary-Value Problems by the Finite Element Method with Hermite Interpolation Polynomials** *30'*   (room 310)

Speaker: Dr. Alexander Gusev (Laboratory of Information Technologies Joint Institute for Nuclear Research)

11:00 - 11:30   **Molecular Dynamics Simulations of Nanobiostructures Combined with Neutron Scattering Experiments** *30'*   (room 310)

Speaker: Prof. Kholmirzo Kholmurodov (Leading Scientist FLNP JINR)

11:30 - 12:00   **Coffee-break**   (room 347)

12:00 - 12:30   **Cooling of Neutron Stars** *30'*   (room 310)

Speaker: Dr. Hovik Grigorian (JINR)

12:30 - 13:00   **Bayesian analysis of hybrid EoS constraints with mass-radius data for compact stars** *30'*   (room 310)

Speaker: Alexander Ayriyan (Laboratory of Information Technologies, JINR)

13:00 - 13:30   **Combinatorial and operatorial approaches to RED modeling** *30'*   (room 310)

Speaker: Dr. Anna Korolkova (Peoples' Friendship University of Russia)

13:30 - 15:00   **Lunch**

15:00 - 17:00   **Excursion in the JINR**

Visiting the pulse neutron source - Reactor IBR-2 at the Frank Laboratory of Neutron Physics (FLNP) of JINR (http://flnp.jinr.ru/34/)

Convener: Dr. Inga Zinicovscaia (JINR)

Location: Frank Laboratory of Neutron Physics

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Friday, 28 August 2015

09:30 - 10:00   **Simple models for relaxation and aggregation of biopolymers** *30'*   (room 310)
     Speaker: Prof. Chin-Kun Hu Hu (Institute of Physics of Academia Sinica, Taipei, Taiwan)

10:00 - 10:30   **Ever expressed genes: a biological observable underlying sparseness and criticality of gene regulatory networks** *30'*   (room 310)
     Speaker: Prof. Chen-Ping Zhu (Nanjing University of nAeronautics and Astronautics)

10:30 - 11:00   **Quantum-field theory methods in developed turbulence** *30'*   (room 310)
     Speaker: Prof. Michal Hnatic

11:00 - 11:30   **Modeling reverberatory bursts of cultured neuronal networks** *30'*   (room 310)
     Speaker: Dr. Chun-Chung Chen (Institute of Physics, Academia Sinica, Taiwan)

11:30 - 12:00   **Coffee-break**   (room 347)

12:00 - 12:30   **Disorder profile of nebulin may encode a Vernier–like position sensor for the sliding thin and thick filaments of the skeletal muscle sarcomere** *30'*   (room 310)
     Speaker: Dr. Ming-Chya Wu (Research Center for Adaptive Data Analysis, National Central University, Taiwan)

12:30 - 13:00   **Comparative analysis of some types of FEL** *30'*   (room 310)
     Speaker: Dr. Koryun Oganesyan (JINR LIT, ANSL)

13:00 - 13:30   **DDS - Dynamic Deployment System** *30'*   (room 310)
     Speaker: Dr. Andrey Lebedev (GSI, Darmstadt / JINR, Dubna)

13:30 - 15:00   **Lunch**

15:00 - 17:00   **Excursion in the Dubna**
     In preparation
     Convener: Mrs. Margarit Kirakosyan (LIT)

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27-30 August 2015 Laboratory of Information Technologies

CMCS workshop

DUBNA WORKSHOP "COMPUTATIONAL MODELLING IN COMPLEX SYSTEMS" 2015

Saturday, 29 August 2015

09:30 - 10:00 Heterogeneous cluster HybriLIT (LIT JINR): new opportunities for parallel computing *30'* (room 310)
Speaker: Dr. Oksana Streltsova (JINR)

10:00 - 10:30 Research of Acceleration of Calculation in Solving Scientific Problems on the Heterogeneous Cluster HybriLIT *30'* (room 310)
Speaker: Maxim Zuev (JINR)

10:30 - 11:00 Modernization of the messaging subsystem of Worldwide Large Hadron Collider Computing Grid monitoring framework *30'* (room 310)
Speaker: Vagram Airiian (Dubna University)

11:00 - 11:30 Asymptotic Solutions of Periodic Boundary Value Problems for Singular Perturbated Infinite Order Differential Equations. *30'* (room 310)
Speaker: Sergey Vasilyev (Peoples' Friendship University of Russia)

11:30 - 12:00 Coffee-break (room 347)

12:00 - 13:30 Discussion and Closing

13:30 - 14:30 Workshop Dinner
Location: Restorant 'Pizzeroni'

Sunday, 30 August 2015

09:30 - 18:00 Excursions in the Moscow Kremlin Museums
Visiting Moscow Kremlin
Convener: Mrs. Margarit Kirakosyan (LIT)
Location: Moscow Kremlin

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