

# RuPAC2012 conference

Venue

Topics

Interesting talks

Dmitriy Malyutin  
PITZ Physics seminar  
4<sup>th</sup> of October, 2012



**Peterhof, Russia**



# Topics

- > Modern trends in accelerators
- > Colliders
- > Particle dynamics in accelerators and storage rings, cooling methods, new methods of acceleration
- > High intensity cyclic and linear accelerators
- > Heavy ions accelerators
- > Synchrotron radiation sources and free electron lasers
- > Magnetic and vacuum systems, power supplies
- > Superconducting accelerators and cryogenics
- > RF power structures and systems
- > Control and diagnostic systems
- > Ion sources and electron guns
- > Medical and industrial applications
- > Radiation problems in accelerators



## **MOXCH04 Laser-Plasma Acceleration – Towards a Compact X-ray Light Source and FEL**

Andrei Seryi (The John Adams Institute for Accelerator Science, Oxford)



## **THXCH01 MARS: Fourth Generation X-Ray Light Source Based on Multiturn Energy-Recovery Linac**

Gennady Kulipanov (BINP SB RAS, Novosibirsk)

**MARS – Multiturn Accelerator-recuperator Radiation Source**



## **THACH01 Indirect Cooled Superconducting Wiggler Magnet**

Konstantin Zolotarev (BINP SB RAS, Novosibirsk)



## **THACH02 Generation of High-Energy Photons with Large Orbital Angular Momentum**

Valeriy Serbo (NSU, Novosibirsk)





## **FRXOR01 Technique and Instrumentation For Bunch Shape Measurements**

Alexander Feschenko (RAS/INR, Moscow)



## **FRBOR03 Non-gated Field Emission Array as Low-Energy Electron Source: Experiment and Simulation**

Konstantin Nikiforov (St. Petersburg State University, St. Petersburg)

