

# “ LHC on the March”,

IHEP, Protvino, Russia

16-18 November 2011



# Summa Summarum

## Wednesday, November 16

Morning session 9:30-13:30

Chairman: A. Zaitsev

- 9:30 **Nikolai E. Tyurin** (IHEP, Protvino)  
"Opening address"
- 9:40 **Edmund N. Dave** (SFU, Burnaby, Canada)  
"Jets, transverse missing energy and tau reconstruction in ATLAS"
- 10:10 **Alexey Vyushin** (RFNC, Sarov, Russia)  
"Experience of long-term operation under ALICE experiment of the automated cooling system of electromagnetic calorimeter PHOS"
- 10:40 **Valentina S. Gallo** (Bern University, LHEP, Bern, Switzerland)  
"Electron and photon identification and reconstruction in ATLAS"

11:10-11:30 Coffee break

Chairman: A. Myagkov

- 11:30 **Yurii Musienko** (INR RAS, Moscow, Russia)  
"New photosensors for the CMS HCAL upgrade"
- 12:00 **Andrea Favareto** (Milano University and INFN, Milano, Italy)  
"Charged track reconstruction and b-tagging performance in ATLAS"
- 12:30 **Alexey Vyushin** (RFNC, Sarov, Russia)  
"Structure of control over electromagnetic calorimeter PHOS in ALICE experiment"
- 13:00 **Barbara Guerzoni** (University of Bologna and INFN, Bologna, Italy)  
"Identified primary hadrons spectra in p p and Pb Pb collisions with the ALICE detector at the LHC"

13:30-14:40 Lunch

Evening session 14:40-19:30

Chairman: V. Petrov

- 14:40 **Emlyn Hughes** (Columbia University, New York, USA)  
"QCD studies with the ATLAS detector"
- 15:10 **Igor Katkov** (KIT, Karlsruhe, Germany)  
"QCD and forward results from CMS"
- 15:40 **Anton Godizov** (IHEP, Protvino, Russia)  
"Top models of diffractive scattering to falsify at the LHC"
- 16:10 **Lidia Smirnova** (INP MSU, Moscow, Russia)  
"K/ $\pi$  ratio and strangeness suppression in pp collisions at the LHC"

16:40-17:00 Coffee break

Chairman: M. Jeitler

- 17:00 **Letizia Lusito** (University and INFN, Bari, Italy)  
"EWK results from CMS"
- 17:30 **Justin Griffiths** (University of Washington, Washington, USA)  
"Electroweak physics in ATLAS"
- 18:00 **Ralf Aeverbeck** (EMMI, Darmstadt, Germany)  
"Heavy-flavor measurements in pp and Pb-Pb collisions with the ALICE experiment at the CERN LHC"
- 18:30 **Boris Polishchuk** (IHEP, Protvino, Russia)  
" $\pi^0$  and  $\eta$  meson production in pp collisions at 0.9, 2.76 and 7 TeV measured with ALICE"
- 19:00 **Vladimir Petrov** (IHEP, Protvino, Russia)  
"Konstantin Tsiolkovsky, grandfather of russian space science"  
(Short introduction towards the Thursday excursion to Kaluga)

19:30 Welcome drink

Thursday, November 17

8:30-15:00

[Excursion to Kaluga](#)

15:00-16:30

[Meal and rest](#)

[Evening session](#) 16:30-19:10

Chairman: L. Smirnova

16:30 **Irina Machikhiliyan** (LAPP, Annecy, France)

"LHC<sub>b</sub>: status and physics results"

17:10 **Manfred Jeitler** (HEPHY, Vienna, Austria)

"Status and performance of CMS"

17:50-18:10

[Coffee break](#)

18:10 **Yuri Kharlov** (IHEP, Protvino, Russia)

"Recent results from ALICE"

18:50 **Alexander Zaitsev** (IHEP, Protvino, Russia)

"Towards the ATLAS upgrade"

19:50

[Conference dinner](#)



## Friday, November 18

Morning session 9:30-13:20

Chairman: Ralf Averbeck

- 9:30 **Ludmila Malinina** (SINP MSU and JINR, Dubna, Russia)  
"ALICE femtoscopy results of PbPb and pp collisions at LHC"
- 10:00 **Francesco Bossu** (Torino University and INFN, Torino, Italy)  
" $J/\Psi$  production measurements in pp and PbPb collisions with ALICE at LHC"
- 10:30 **Ioannis Nomidis** (Aristotle University, Thessaloniki, Greece)  
"B-Physics studies with the ATLAS detector"

11:00-11:20 Coffee break

Chairman: Sergei Sadovsky

- 11:20 **Vladimir Obraztsov** (IHEP, Protvino, Russia)  
" $\bar{b}b$  quarkonia production at LHC<sub>b</sub>"
- 11:50 **Yuschenko Oleg** (IHEP, Protvino, Russia)  
" $B_s$  production at LHC<sub>b</sub>"
- 12:20 **Alexey Luchinsky** (IHEP, Protvino, Russia)  
"Tetraquarks composed of 4 heavy quarks"
- 12:50 **Dmitry Kirpichnikov** (INR RAS, MSU, Moscow, Russia)  
"Vector bosons escaping from the brane"

13:20-14:20 Lunch

Evening session 14:20-18:20

Chairman: I. Nomidis

- 14:20 **Maria Ilaria Besana** (INFN, Milano, Italy)  
"Top physics in ATLAS"
- 14:50 **Mikhail Kirsanov** (INR, Moscow, Russia)  
"Search for a heavy neutrino and right-handed  $W$  of the left-right symmetric model in pp collisions at  $\sqrt{s} = 7$  TeV (CMS)"
- 15:20 **Miriam Fehling-Kaschek** (University of Freiburg, Freiburg, Germany)  
"SUSY searches in ATLAS"

15:50-16:10 Coffee break

Chairman: V. Petrov

- 16:10 **Mikhail Kirsanov** (INR, Moscow, Russia)  
"SUSY and exotica searches by CMS"
- 16:40 **Nenad Vranjes** (IP, University of Belgrad, Belgrad, Serbia)  
"Exotics searches in ATLAS"
- 17:10 **Nansi Andari** (LAL, Orsay, France)  
"Higgs searches in ATLAS (SM and MSSM)"
- 17:40 **Artur Kalinowski** (University of Warsaw, Warsaw, Poland)  
"Higgs search by CMS"
- 18:10 "Closing address"

18:20 Farewell drink

# THEORIES AND MODELS BEFORE THE DATA WAS TAKEN



... AND AFTER THE DATA WAS  
TAKEN



# OPERA updated!



$$(v-c)/c = (2.37 \pm 0.32 \text{ (stat.) (sys.)}) 10^{-5}.$$