

**International Conference on  
Physics in Memoriam Acad.  
Prof. Matey Mateev**

**Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Scientific Activity of Prof. Matey Mateev

**Presenter:** LALOV, Ivan (Sofia University, Bulgaria)

Contribution ID: 1

Type: **not specified**

## Scientific Activity of Prof. Matey Mateev

*Monday 11 April 2011 09:15 (25 minutes)*

**Presenter:** LALOV, Ivan (Sofia University, Bulgaria)

**Session Classification:** First Morning Session

Contribution ID: 2

Type: **not specified**

## The radius of the proton

*Monday 11 April 2011 09:40 (35 minutes)*

**Presenter:** DE RUJULA, Alvaro (CERN)

**Session Classification:** First Morning Session

Contribution ID: 3

Type: **not specified**

## **Growth of Solid Electrolytes from the Melt under Microgravity**

*Monday 11 April 2011 10:15 (35 minutes)*

**Presenter:** POPOV, Angel (Sofia University, Bulgaria)

**Session Classification:** First Morning Session

Contribution ID: 4

Type: **not specified**

## **The new geometric formulation of quantum field theory according to Matey Mateev's scenario**

*Monday 11 April 2011 11:20 (50 minutes)*

**Presenter:** KADYSHEVSKIY, Vladimir (Joint Institute for Nuclear Research (JINR))

**Session Classification:** Second Morning Session

Contribution ID: 5

Type: **not specified**

## **A boost for a whole life**

*Monday 11 April 2011 12:10 (25 minutes)*

**Presenter:** CHIZHOV, Mihail (Faculty of Physics)

**Session Classification:** Second Morning Session

Contribution ID: 6

Type: **not specified**

## **Search with CMS detector for physics beyond the SM**

*Monday 11 April 2011 12:35 (35 minutes)*

**Presenter:** LITOV, Leandar (Faculty of Physics)

**Session Classification:** Second Morning Session



Contribution ID: 7

Type: **not specified**

## **Primordial nucleosynthesis and the radiation content of the early universe**

*Monday 11 April 2011 14:40 (35 minutes)*

**Presenter:** MIELE, Gennaro (Universita di Napoli "Federico II", Italy)

**Session Classification:** First Afternoon Session

Contribution ID: 8

Type: **not specified**

## **From Mateev's baryogenesis ideas to contemporary cosmological constraints**

*Monday 11 April 2011 15:15 (25 minutes)*

**Presenter:** KIRLOVA, Daniela (IA and NAO, BAS, Bulgaria)

**Session Classification:** First Afternoon Session

Contribution ID: 9

Type: **not specified**

# Representations and q-Deformation of Anti de Sitter Symmetry

*Monday 11 April 2011 15:40 (35 minutes)*

**Presenter:** DOBREV, Vladimir (INRNE, BAS, Bulgaria)

**Session Classification:** First Afternoon Session

Contribution ID: **10**

Type: **not specified**

## Why neutrinos are different

*Monday 11 April 2011 16:15 (35 minutes)*

**Presenter:** FRERE, Jean-Marie (Service de Physique des Particules Elementaires)

**Session Classification:** First Afternoon Session

Contribution ID: 11

Type: **not specified**

## Physics of soft and living matter

*Monday 11 April 2011 17:15 (35 minutes)*

**Presenter:** PETROV, Alexander (ISSP, BAS, Bulgaria)

**Session Classification:** Second Afternoon Session

Contribution ID: 12

Type: **not specified**

## **Correlation between $T_c$ and the Cu 4s level reveals the mechanism of high-temperature superconductivity**

*Monday 11 April 2011 18:25 (25 minutes)*

**Presenter:** MISHONOV, Todor (Sofia University, Bulgaria)

**Session Classification:** Second Afternoon Session

Contribution ID: 13

Type: **not specified**

## **Target definition and target tracking in radiation therapy - resolved and unresolved problems**

*Monday 11 April 2011 17:50 (35 minutes)*

**Presenter:** KIROV, Assen (MSKCC, USA)

**Session Classification:** Second Afternoon Session

Contribution ID: 14

Type: **not specified**

# **New Improved Operational Model for Cosmic Ray Effects in Space Physics**

*Monday 11 April 2011 18:50 (25 minutes)*

**Presenter:** VELINOV, Peter (ISSTR, BAS, Bulgaria)

**Session Classification:** Second Afternoon Session



Contribution ID: 15

Type: **not specified**

## **Soliton equations on symmetric spaces and Bose-Einstein condensates**

*Tuesday 12 April 2011 09:00 (25 minutes)*

**Presenter:** GERDJIKOV, Vladimir (INRNE, BAS, Bulgaria)

**Session Classification:** General Morning Session

Contribution ID: **16**

Type: **not specified**

# Deformed Symmetries and Exact Solvability in Quantum Physics

*Tuesday 12 April 2011 09:25 (20 minutes)*

**Presenter:** ANEVA, Boyka (Unknown)

**Session Classification:** General Morning Session

Contribution ID: 17

Type: **not specified**

## **Spatially homogeneous Yang-Mills Theory: Instant, light-front and point forms of dynamics**

*Tuesday 12 April 2011 09:45 (20 minutes)*

**Presenter:** MLADENOV, Dimitar (Department of Physics)

**Session Classification:** General Morning Session

Contribution ID: **18**

Type: **not specified**

## **Quantum equations of motion in BF theory with sources**

*Tuesday 12 April 2011 10:05 (20 minutes)*

**Presenter:** ILIEVA, Nevena (INRNE, BAS, Bulgaria)

**Session Classification:** General Morning Session

Contribution ID: 19

Type: **not specified**

# **Kramers Diffusive Mechanism of Alpha Decay, Proton/Cluster Radioactivity and Spontaneous Fission, Induced by Vacuum Zero-point Radiation**

*Tuesday 12 April 2011 10:25 (20 minutes)*

**Presenter:** RUSOV, Vitaliy (Odessa University, Ukraine)

**Session Classification:** General Morning Session

Contribution ID: 20

Type: **not specified**

## **Strong Gravitational Lensing and quasinormal modes**

*Tuesday 12 April 2011 11:20 (20 minutes)*

**Presenter:** STEFANOV, Ivan (Technical University of Sofia, Bulgaria)

**Session Classification:** General Morning Session

Contribution ID: 21

Type: **not specified**

## **Desynchronization of systems of Hindmarsh-Rose oscillators by varying time-delay noninvasive feedback**

*Tuesday 12 April 2011 11:40 (20 minutes)*

**Presenter:** URUMOV, Victor (University Ss Cyril and Methodius, Macedonia)

**Session Classification:** General Morning Session

Contribution ID: 22

Type: **not specified**

## **Mu -> e+gamma in the MSSM with Minimal Flavour Violation**

*Tuesday 12 April 2011 12:00 (20 minutes)*

**Presenter:** DAVIDKOV, Momchil (JINR, Russia)

**Session Classification:** General Morning Session



Contribution ID: 23

Type: **not specified**

## **Mathematics and science teachers' concept of critical thinking**

*Tuesday 12 April 2011 12:20 (20 minutes)*

**Presenter:** MITREVSKI, Boce (Faculty of Natural Sciences and Maths, Macedonia)

**Session Classification:** General Morning Session

Contribution ID: 24

Type: **not specified**

## Do physics textbook writers understand physics?

*Tuesday 12 April 2011 12:40 (20 minutes)*

**Presenter:** ZAJKOV, Oliver (University Ss Cyril and Methodius, Macedonia)

**Session Classification:** General Morning Session

Contribution ID: 25

Type: **not specified**

## Modern Physics Course in Bulgaria

*Tuesday 12 April 2011 13:00 (20 minutes)*

**Presenter:** IVANOV, Stefan (Sofia University)

**Session Classification:** General Morning Session