

# ICPS2009 Poster board allocations

## Poster session 1

(Sunday, August 16, 15:00 - 17:30)

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### Bar Instability and Black holes

*Valentina De Romeri*

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### Swift satellite's data analysis about 3c 279 and PKS 1510

*Umberto Battino*

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### Long-term INTEGRAL observations

#### of bright and persistent neutron star Low-Mass X-ray Binaries

*Petri Savolainen, Diana Carina Hannikainen, Ada Paizis, Ruben Farinelli, Osmi Vilhu and Erik Kuulkers*

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### Uncovering the pulsating photosphere of R Boo through NIR interferometry

*Michel Hillen*

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### The flux ratio of the [O III] $\lambda\lambda 5007, 4959 \text{ \AA}$ lines in AGN - analysis of the sample with red asymmetry and with no asymmetry of [O III] line profiles

*Dajana Vranješ, Đorđe Smiljić, Milan Gligorić, Nemanja Rakić, Dalibor Obradović and Jelena Kovačević*

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### Milutin Milanković - time traveler

*Đorđe Smiljić*

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### Hunting the paranormal - physics of the impossible

*Sebastian Szwarc*

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### On some unconventional ways to solve physical equations with MathCAD

*Constantin Dan Buioca and Livia-Maria Șorop*

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### Hydrogen Storage Capacity and Shape of the Classical Molecule Trajectories

*Milan Popović, Milan Gligorić and Nemanja Rakić*

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### Currents in the Mediterranean and Adriatic Sea

*Marija Mustać*

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### BR Limits on FCNC Top decays at ATLAS

*Antonio Onofre, Filipe Veloso*

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### Infrared Propagators in QCD

*Petro Fedosenko*

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### Fixed Point Resolutions in Extension of Permutation Orbifolds

*Michele Maio*

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### Energy unfolding of the diffractively scattered proton transport at the LHC for ALFA@ATLAS

*Maciej Trzebiński*

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### A strange attractor

*Bence Béky and Yves Coudene*

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### Measuring concentration of radon in the air

*Jelena Sobot and Dragana Malivuk*

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### Neutron induced background gamma activity in low-level Ge-spectroscopy systems

*Nikola Jovančević*

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**The Effective Potential of Macroparticle  
in a Magnetized Collisionless Dusty Plasma**

*Maksym Ryndia*

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**How to make your own Theremin?**

*Julia Wiktor, Radek Radziejewski, Aleksandra Grzelak*

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**Ion beam analysis of corrosive compounds  
in superheaters from biomass and waste combustion facility**

*M. Napari, J. Julin, M. Laitinen, J. Maunuksela, T. Sajavaara, M. Aho, H.J. Whitlow*

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**Ultraintense lasers: science and applications**

*R. Borrego Varillas, C. Mendez, I. Arias, L. Roso*

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**The efficiency of photovoltaic solar cells in specific meteorological conditions**

*Davor Topalović, Petar Janjić, Stefan Čagljević*

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**Force of sounds – acoustic levitation**

*Bartłomiej Tomala*

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**Coherent Control Demo model**

*G. Hemink, E. Dietrich*

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**Thermohaline Circulation: The Global Ocean Conveyor**

*Milena Latinović, Tatjana Radjenović*

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**Condensation of water vapor in atmosphere on ionised atoms**

*Đorđe Smiljić, Dajana Vranješ*

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**Using of electronic resources for hands-on work; Hands-On kit (pressure)**

*Uliana Nyemchenko*

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**The role of the auditory system  
in a transforming of physical parameters of sound into its sensual features**

*Julia Jakubowska*

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**Aerodynamics of a cycling team in a time trial**

*A. Íñiguez-de-la Torre and I. Íñiguez-de-la Torre*

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**TLP Database Analysis**

*Carla Stratton*

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## Poster session 2

(Sunday, August 16, 17:30 - 20:00)

**Thin film deposition with short review of recent developments and applications**

*Milan Vrućinić and Bojana Kačar*

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**A Novel Bird-inspired Flapping-Wing Test Bench**

*Min-Chi, Lai, Ciann-Dong, Yang, Teng-Yi, Chang*

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**Hydrophobin: a protein out of the ordinary**

*Elodie Aumaitre, Pietro Cicuta*

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**Studies of biodegradable plastics produced by quiescent E. coli**

*N. M. Thomson, E. Sivaniah, D. K. Summers*

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**Cooperative Enzyme Kinetics**

*Teslenko V.I., Kozlova O.V.*

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**High energy ball-milling of hydrogen titanate nanotubes**

*Milivoj Plodinec, Ivica Friščić, Damir Iveković, Andreja Gajović*

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**An Introduction To Graphene & Squarium And Some Novel Applications**

*Thomas Standard*

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**Modelling charge-imbalanced NaNbO<sub>3</sub>/SrTiO<sub>3</sub> superlattices: lattice relaxation and metallicity**

*Riku Oja and Risto M. Nieminen*

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**Density Distribution of Matter in Systems of Finite Size**

*Gudyma A., Vasilev O.*

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**Preparation and characterization of Au cluster deposited on MgO/Ag (100)**

*Marco Caputo*

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**From bulk to films : Thin Films Prepared by RF magnetron Sputtering**

*R. Frunza, F. Prihor and L. Mitoseriu*

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**Critical Points for Symmetric Synthetic Antiferromagnetic Structures**

*Andrei-Valentin Plamada, Alexandru Stancu*

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**Towards a new approach to the magnetization of ferromagnetic two-particle systems**

*Magdalena Jitca, Andrei-Valentin Plamada, Alexandru Stancu*

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**Phonon States of Nano-Chrystalline Film Structures**

*Igor Mandić*

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**The influence of chiral additives on phase transitions of cholesteric liquid crystals**

*Vladica Nikolić, Ivan Budinčević, Kristina Fodor*

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**Applications of Superconductivity**

*Stephanie Walton*

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**Application of the radiochromic films  
for the purposes of high energy X-ray dose measurements**

*V.Rebyakova, M.Lavrova, T.Tatarinova*

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**Physical Aspects of Usage Fullerenes in Medicine**

*A. A. Lipovtsev*

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**Vocal folds**

*Edit Karvak*

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**Detecting cerebral blood volume changes in sleep apnea with near-infrared spectroscopy**

*Jaakko Virtanen*

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**Three-Dimension Quantum Dynamics In Diatomic Molecule**

*Ciann-Dong Yang and Hung-Jen Weng*

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**How to make your own Theremin? (*continued*)**

*Julia Wiktor, Radek Radziejewski, Aleksandra Grzelak*

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**The optical transmission of one-dimensional photonic crystals  
containing double-negative materials**

*Andreea Cristina Petcu, Liliana Preda*

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**Piercing an interface with a brush**

*Filippo Chiodi, Benoit Roman and Josè Bico*

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**Determination of the elastic properties of solid materials by acoustical method**

*Stefania Brignolo, Simona Lago*

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**Measuring the Rate of Chemical Reaction Between Marble and Hydrochloric Acid**

*Dragoljub Vranković, Nemanja Rakić*

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**Dancing with Physics**

*Gizem Sengor, Ibrahim Semiz*

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**Law of forces of Ruđer Bošković**

*Antonija Mijatović*

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**Laser, where are you?**

*Krystian Hausmann*

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