

Scientific Federation

79th & 80th Conferences



Final Program

Global Conference on

Magnetism and Magnetic Materials

International Conference on

Atomic & Nuclear Physics

July 23-24, 2018 at Osaka, Japan



Scientific Federation

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Day 1 July 23, 2018

Main Hall

- 08:00-09:00 Registrations
09:00-09:10 Introduction
09:10-09:30 Opening Ceremony

Plenary Sessions

- 09:30-10:20 **Title: Advances in Nanocomposite Magnets Research**
J.P. Liu, University of Texas, USA
10:20-11:10 **Title: The Correlation of Miller Indices with the Conductivity Mechanism of Cu-based High-Tc Superconductor**
Emad Al-Shakarchi, Al-Nahrain University, Iraq

Networking & Refreshments Break 11:10-11:25 @ Foyer

Keynote Sessions

- 11:25-12:10 **Title: Chaotic dynamics of magnetic particles**
David Laroze, Universidad de Tarapacai, Chile
Session: Hard and Soft Magnetic Materials, Magnetism and Magnetic Materials, Magnetization Dynamics, Superconductivity and Super fluidity, Novel Magnetic Materials and Device Applications, Magnetic Recording, Memories and Spintronics, Spintronic Effects and Devices, Functional Magnetic Materials, Nanomagnetism
Session Chair: Clemens Ulrich, University of New South Wales, Australia
Session Co-chair: Jiabao Yi, University of New South Wales, Australia

Invited Talks

- 12:10-12:40 **Title: Annealing Effects on Soft Magnetic Properties and Crystallization Behavior of Fe-Si-B-P-Cu-C Alloy**
Yan Zhang, Tohoku University, Japan
12:40-13:10 **Title: Earth Magnetic Field – Regular and Reversed**
Shuh Jing Ying, University of South Florida, USA

Lunch Break 13:10-14:00

- 14:00-14:30 **Title: Magnetic Loss Analysis in Nanocrystalline Soft Magnetic Alloy**
V.S. Tsepelev, Boris Yeltzin Ural Federal University, Russia
14:30-15:00 **Title: Low dimensional magnetism in cobaltite Ba_2CoO_4 involving isolated CoO_4 tetrahedra**
Qiang Zhang, Louisiana State University, USA
15:00-15:30 **Title: Multiferroic thin films investigated by neutron diffraction**
Clemens Ulrich, University of New South Wales, Australia
15:30-16:00 **Title: Magnetic frustration effect to superconductivity in a heterostructure of ferromagnet and superconductor**
Shih-Jye Sun, National University of Kaohsiung, Taiwan

Networking & Refreshments Break 16:00-16:15 @ Foyer

- 16:15-16:45 **Title: Influence of rare-earth elements on magneto-crystalline anisotropy in Nd-Fe-B magnetic particles by reduction-diffusion process**
Dongsoo Kim, Convergence Research Center for Development of Mineral Resources, Korea
16:45-17:15 **Title: Advanced Electron Holography of Magnetic Materials**
Daisuke Shindo, Tohoku University & RIKEN, Japan
17:15-17:45 **Title: Ferromagnetism in 2D materials**
Jiabao Yi, University of New South Wales, Australia
17:45-18:15 **Title: Magnetic behaviors of 3d transition metal doped silicane: A first-principles study**
Sake Wang, Jinling Institute of Technology, China
18:15-18:45 **Title: Role of Anisotropy Energy in Mobilizing Oil in the Porous Medium**
Noorhana Yahya, Universiti Teknologi PETRONAS, Malaysia

19:00-20:00 Cocktails

Poster Presentations

- P-001 **Title: Influence of wet ball milling on phase composition and magnetic properties of Nd₂Fe₁₄B particles obtained by reduction diffusion**
Vitalli Galkin, Korea Institute of Geoscience and Mineral Resources, Russian Federation
- P-002 **Title: Electronic and transport properties in EuO-based magnetic tunneling junctions: A first-principles study**
Chia-Chia Chao, National Central University, Taiwan
- P-003 **Title: Enhancement of spin-transfer torque in superlattice-barrier magnetic tunnel junctions**
Peng Tseng, National Taiwan University, Taiwan
- P-004 **Title: Spin transfer properties of amine-ended single-molecule magnetic junction**
Kuan-Rong Chiang, National Central University, Taiwan
- P-005 **Title: Synthesis of Magnetite Hollow Nanospheres for Drug Delivery**
Francisco Majrquez, Universidad del Turabo, USA

Day 2 July 24, 2018

Main Hall

- 08:00-09:00 Registrations
09:00-09:10 Introduction
09:10-09:30 Opening Ceremony

Plenary Sessions

- 09:30-10:20 **Title: Development of the Solid State - Nuclear Physics**
Hideo Kozima, Cold Fusion Research Laboratory, Japan
- 10:20-11:10 **Title: Precision Experiments with Polarized Particles**
D.Eversheim, HISKP University Bonn, Germany

Networking & Refreshments Break 11:10-11:25 @ Foyer

Keynote Sessions

- 11:25-12:05 **Title: Explosion of Collapsed Supernova and Hot Big Bang of the Universe Driven by Magnetic Monopoles**
Qiuhe Peng, Nanjing University, China
- 12:05-12:45 **Title: The self-consistent effective models of Quantum hydrodynamics (QHD), applications to nuclear matter, fission dynamics and neutron stars**
Hiroshi Uechi, Osaka Gakuin University, Japan

12:45-13:00 Panel Discussion

Lunch Break 13:00-14:00 @ La Serra Restaurant

Session: Particle Physics, Nuclear Fusion and Nuclear fission, Nuclear Astro physics and Nuclear Reactor Physics, Atomic Collisions and Nucleon Structure Atomic Physics and Nuclear Physics Ultra Cold Atoms and Atomic Spectroscopy Nuclear Radioactive Decay and Atomic Astrophysics Nuclear Medicine Physics and Radioactive Decay, Laser-Atomic Physics, Others

Session Chair: Carmen Tuca, Horia Hulubei National Institute for Physics and Nuclear Engineering, Romania

Session Co-chair: Kinga Polaczek Grelik, University of Silesia in Katowice, Poland

- 14:00-14:20 **Title: Radioactivity induced during emission of high-energy radiotherapeutic photon beams**
Kinga Polaczek Grelik, University of Silesia in Katowice, Poland
- 14:20-14:40 **Title: Key Aspects Regarding Hot Cells Decommissioning of a Nuclear Research Reactor**
Carmen Tuca, Horia Hulubei National Institute for Physics and Nuclear Engineering, Romania
- 14:40-15:00 **Title: Testing vacuum birefringence under a high-intensity laser field with GeV photons**
Kensuke Homma, Graduate School of Science, Hiroshima University, Japan
- 15:00-15:20 **Title: Particle correlations under thermal stochastic influence**
Kozlov Gennady, Joint Institute for Nuclear Research, Russia
- 15:20-15:40 **Title: Perspective of searching for dark components in the Universe with multi-high-intensity lasers**
Kensuke Homma, Graduate School of Science, Hiroshima University, Japan
- 15:40-16:00 **Title: The study of natural radioactivity and neutron fluence in the underground salt chamber**
Kinga Polaczek Grelik, University of Silesia in Katowice, Poland

- 16:15-16:35** **Title: Relativistic Heavy-Ion Collisions and Relics from the early Universe**
Ahmed M. Hamed, State University of New York, USA
- 16:35-16:55** **Title: Methodology of computer design of photodetectors based on microchannel plates**
Valentin Ivanov, Institute of Computational Technologies of RAS, Russia
- 16:55-17:15** **Title: Systematic study of the “flat” superdeformed bands in the $A \approx 190$ mass region**
Harish Mohan Mittal, Dr. B. R. Ambedkar National Institute of Technology, India
- 17:15-17:35** **Title: Application of Neutron Activation Analysis Technique for the Analysis of Soil Samples from Farmlands of Yebrage Hawariat, East Gojjam, Ethiopia**
Yihunie Hibstie Asres, North West University, South Africa
- 17:35-17:55** **Title: The review of mathematical models for three-dimensional problems of electron optics**
Valentin Ivanov, Institute of Computational Technologies of RAS, Russia

Poster Presentations on JULY 23, 2018

- P-001** **Title: Use of Accident Tolerant Fuel to the fuel Assembly in PWR reactors**
Lev V. Levanov, Vadim E. Kuzin, Africantov OKB Mechanical Engineering, Russia

Certificate Felicitatıon @ Closing Ceremony

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2nd International Conference on

Magnetism and Magnetic Materials

July 25-26, 2019 At Rome, Italy

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