

Oral Sessions

Novel materials

Chairpersons: Kosuke Nakayama (Tohoku University) and Junichi Shiogai (Tohoku University)

PC6-1-INV 9:30–9:55

Bi²⁺ square net superconductivity in Y₂O₂Bi

*Tomoteru Fukumura

Tohoku University

PC6-2-INV 9:55–10:20

Highly-crystalline 2D superconductors and beyond

*Yu Saito

The University of Tokyo

PC6-3 10:20–10:35

Paramagnetic and Diamagnetic Pair-Breaking Effect in Electric-Field-Induced Surface Superconductivity under Parallel Magnetic Fields

*Masanori Ichioka^{1,2}, Masahiro Nabeta¹, Kenta K. Tanaka¹, Seiichiro Onari^{1,2}

1. Department of Physics, Okayama University; 2. Research Institute for Interdisciplinary Science, Okayama University

PC6-4 10:35–10:50

Bulk superconductivity induced by in-plane chemical pressure effect in the Eu_{0.5}La_{0.5}FBiS_{2-x}Se_x system

*Gen Jinno¹, Rajveer Jha², Akira Yamada², Ryuji Higashinaka², Tatsuma D. Matsuda², Yuji Aoki², Masanori Nagao³, Osuke Miura¹, Yoshikazu Mizuguchi¹

1. Department of Electrical and Electronic Engineering, Tokyo Metropolitan University; 2. Department of Physics, Tokyo Metropolitan University; 3. Center for Crystal Science and Technology, University of Yamanashi

PC6-5 10:50–11:05

Superconducting state of the single crystals of La(O,F)Bi(S_{1-x}Se_x)₂

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1. Graduate school of science and technology, Niigata University; 2. Department of materials science, Niigata University

Novel states of matter

Chairpersons: Akira Iyo (AIST) and Tsutomu Nojima (Tohoku University)

PC7-1-INV 11:20–11:45

Correlation strength and T_c : quantum oscillations in $\text{YBa}_2\text{Cu}_4\text{O}_8$ under hydrostatic pressure

*Carsten Putzke¹, L. Malone¹, S. Badoux², W. Tabis², D. Vignolles², B. Vignolle², P. Walmsley¹, M. Bird¹, N. E. Hussey¹, C. Proust², A. Carrington¹

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PC7-2 11:45–12:00

Improvement of superconducting properties in $\text{Ba}_2\text{SmNbO}_6$ and BaHfO_3 co-doped $\text{SmBa}_2\text{Cu}_3\text{O}_y$ thin films under low and high magnetic field

*Yuma Kusafuka¹, Yusuku Ichino¹, Yuji Tsuchiya¹, Yutaka Yoshida¹, Ichinose Ataru²

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PC7-3 12:00–12:15

Elastoresistance measurements as a probe of nematic fluctuations in cuprate superconductors

*Kousuke Ishida¹, Suguru Hosoi¹, Yuta Mizukami¹, Yuki Teramoto², Tomohiro Usui², Takao Watanabe², Takasada Shibauchi¹

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PC7-4 12:15–12:30

Surface spintronics of the chiral d-wave pairing state in the Kane-Mele metal SrPtAs

*Jun Goryo¹, Yoshiki Imai², Andreas Schnyder³, Manfred Sigrist⁴

1. Hirosaki University; 2. Saitama University; 3. Max Planck Institute, Stuttgart; 4. ETH Zurich

PC7-5 12:30–12:45

Spontaneous orbital-selective Mott transitions and the Jahn-Teller metal of $\text{A}_3\text{C}_6\text{O}$

*Shintaro Hoshino¹, Philipp Werner²

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