

JSPS Postdoctoral Fellowship for Overseas Researcher

FY 2019 Mathematical and physical sciences

| Name(Nationality) | Research Subject | Host Institute Host Researcher | Period | Region Prefecture |
|------------------------------------|---|--|-------------------------------|----------------------|
| GAISIN, I. M. AUSTRALIA | Deligne-Lusztig varieties and the Fargues-Fontaine curve | The University of Tokyo IMAI, Naoki Associate Professor Graduate School of Mathematical Sciences | Apr 1, 2019~ Mar 31, 2021 | Kanto Tokyo |
| KWIECINSKI, J. A. AUSTRALIA | On the Role of Mechanical Interactions in Cellular Systems | Okinawa Institute of Science and Technology Graduate University FRIED, Eliot Professor Mathematics, Mechanics, and Materials Unit | Sep 1, 2019~ Aug 31, 2021 | Okinawa Okinawa |
| SCHRADER, P. J. AUSTRALIA | Gradient flows on spaces of curves | Tohoku University OKABE, Shinya Associate Professor Graduate School of Science, Mathematical Institute | Oct 7, 2019~ Oct 6, 2021 | Tohoku Miyagi |
| XU, J. Y. AUSTRALIA | Algebraic and Combinatorial Study of Schubert Cells and Schubert Varieties | Tohoku University TANAKA, Hajime Associate Professor Graduate School of Information Sciences | Jun 10, 2019~ Jun 9, 2021 | Tohoku Miyagi |
| KIDWAI, O. A. CANADA | Exact WKB analysis, spectral coordinates, and topological recursion | Nagoya University IWAKI, Kohei Assistant Professor Graduate School of Mathematics | Sep 13, 2019~ Sep 12, 2021 | Chubu Aichi |
| CAI, Y. CHINA | Automorphic L-functions and generalized theta correspondences | Kyoto University ICHINO, Atsushi Associate Professor Graduate School of Science | May 8, 2019~ May 7, 2021 | Kinki Kyoto |
| CHEN, Y. CHINA | Accelerated quantum control methods | RIKEN NORI, Franco Chief Scientist RIKEN Cluster for Pioneering Research | Sep 30, 2019~ Sep 29, 2021 | Kanto Saitama |
| HU, Y. CHINA | Structural mechanisms of crystallization and complex-liquid behaviors of phase change materials | The University of Tokyo TANAKA, Hajime Professor Institute of Industrial Science | Sep 26, 2019~ Sep 25, 2021 | Kanto Tokyo |

| | | | | |
|---|--|---|-------------------------------|-------------------|
| LI, J. CHINA | The study of purely quantum effects in chaotic systems based on semiclassical theory | Tokyo Metropolitan University SHUDO, Akira Professor Graduate School of Science | Nov 27, 2019~ Nov 26, 2021 | Kanto Tokyo |
| LI, S. CHINA | Study of the mechanical role of viscous mantle flow on interseismic deformation in southwest Japan | The University of Tokyo FUKUDA, Junchi Assistant Professor Earthquake Research Institute | Sep 1, 2019~ Aug 31, 2021 | Kanto Tokyo |
| LIANG, Y. CHINA | Space Architecture near Minor Bodies | Japan Aerospace Exploration Agency FUJIMOTO, Masaki Professor Institute of Space and Astronautical Science | Nov 16, 2019~ Nov 15, 2021 | Kanto Kanagawa |
| LIU, Q. CHINA | Petrology and tectonics of the Central Asian Orogenic Belt | University of Tsukuba TSUNOGAE, Toshiaki Professor Faculty of Life and Environmental Sciences | Apr 1, 2019~ Mar 31, 2021 | Kanto Ibaraki |
| WANG, L. CHINA | Stellar dynamics as a bridge to connect star formation and gravitational waves | The University of Tokyo FUJII, Michiko Associate Professor Graduate school of Science | Nov 30, 2019~ Nov 29, 2021 | Kanto Tokyo |
| ZHANG, L. CHINA | Behavior of mean curvature flow with driving force and its application | The University of Tokyo GIGA, Yoshikazu Professor Graduate School of Mathematical Sciences | Nov 30, 2019~ Nov 29, 2021 | Kanto Tokyo |
| ZHANG, P. CHINA | Study of topological superconductors using laser photoelectron spectroscopy | The University of Tokyo KONDO, Takeshi Associate professor The institute for Solid State Physics | Apr 1, 2019~ Mar 31, 2021 | Kanto Chiba |
| ZHANG, Y. CHINA | Entanglement Detection and Characterization of Topological States | RIKEN NORI, Franco Chief Scientist RIKEN Cluster for Pioneering Research | Nov 1, 2019~ Oct 31, 2021 | Kanto Saitama |
| AKAL, I. GERMANY | Information theoretic concepts in quantum field theory and insights into holography | Kyoto University TAKAYANAGI, Tadashi Professor Yukawa Institute for Theoretical Physics | Nov 1, 2019~ Oct 31, 2021 | Kinki Kyoto |

| | | | | |
|---|--|--|-------------------------------|----------------------|
| ROQUEFEUIL, A. N. FRANCE | Enumerative invariants in K-theory and q-differene modules | The University of Tokyo MILANOV, Todor Associate Professor Kavli Institute for the Physics and Mathmatics of the Universe | Oct 2, 2019~ Oct 1, 2021 | Kanto Chiba |
| VILELLA, K. FRANCE | Long-term evolution of icy satellites: coupling between icy layers and subsurface oceans | Hokkaido University KAMATA, Shunichi Associate Professor Faculty of Science | Jun 6, 2019~ Jun 5, 2021 | Hokkaido Hokkaido |
| BURAGOHAIN, M. INDIA | Understanding the nature of interstellar PAHs based on a combined approach | The University of Tokyo SAKON, Itsuki Assistant Professor Graduate School of Science | Apr 1, 2019~ Mar 31, 2021 | Kanto Tokyo |
| PAUL, B. INDIA | Fourier coefficients and zeros of modular forms | Kyushu University KANEKO, Masanobu Professor Faculty of Mathematics | Nov 5, 2019~ Nov 4, 2021 | Kyushu Fukuoka |
| GIBBONS, A. H. IRELAND | Microfluidic flow in printed fracture channel | Kyoto University SIVANIAH, Easan Professor Institute for Advanced Study, Institute for Integrated Cell-Material Sciences | Sep 1, 2019~ Aug 31, 2021 | Kinki Kyoto |
| GORJI, M. IRAN | Probing Modified Gravity and Non-Abelian Gauge Fields by Gravitational Waves | Kyoto University MUKOHYAMA, Shinji Professor Yukawa Institute for Theoretical Physics | Nov 27, 2019~ Nov 26, 2021 | Kinki Kyoto |
| BUONINFANTE, L. ITALY | The pursuit of a renormalizable and unitary gravity theory: theoretical and phenomenological aspects | Tokyo Institute of Technology YAMAGUCHI, Masahide Professor School of science | Nov 28, 2019~ Nov 27, 2021 | Kanto Tokyo |
| DE RENZI, M. ITALY | Diagrammatic Construction of Non-Semisimple TQFTs | Waseda University MURAKAMI, Jun Professor Faculty of Science and Engineering | Oct 2, 2019~ Oct 1, 2021 | Kanto Tokyo |
| RIZZI, L. ITALY | Adjoint forms and Torelli problems for hypersurfaces of spherical varieties | The University of Tokyo OGUIISO, Keiji Professor Graduate School of Mathematical Sciences | Nov 1, 2019~ Oct 31, 2021 | Kanto Tokyo |

| | | | | |
|---------------------------------|--|--|-------------------------------|--------------------|
| MURCH, A. P. NEW ZEALAND | The influence of volatiles on magmatism in the Okinawa Trough and Ryukyu Arc | National Museum of Nature and Science TANI, Kenichiro Senior Curator Department of Geology and Paleontology | Oct 28, 2019~ Oct 27, 2021 | Kanto Ibaraki |
| WAHEED, E. PAKISTAN | Searches for Axion-Like-Particles and New Physics in semileptonic B decays from Belle II | High Energy Accelerator Research Organization NISHIDA, Shohei Associate Professor Institute of Particle and Nuclear Studies | Oct 15, 2019~ Oct 14, 2021 | Kanto Ibaraki |
| GIETKA, K. P. POLAND | Matter-Light Interferometry and Quantum Phase Transitions | Okinawa Institute of Science and Technology Graduate University BUSCH, Thomas Professor Quantum Systems Unit | Nov 30, 2019~ Nov 29, 2021 | Okinawa Okinawa |
| SSESSANGA, N. UGANDA | 4-D tomographic investigation of equatorial and mid-latitude ionospheric irregularities | Kyoto University YAMAMOTO, Mamoru Professor Research Institute for Sustainable Humanosphere | Aug 7, 2019~ Aug 6, 2021 | Kinki Kyoto |
| HARTER, A. K. U.S.A. | Floquet engineering control of topological non-Hermitian systems | The University of Tokyo HATANO, Naomichi Professor Institute of Industrial Science | Oct 16, 2019~ Oct 15, 2021 | Kanto Chiba |