

FY2009

JSPS Postdoctoral Fellowship for Foreign Researcher

Field: **Mathematical and Physical Sciences**

note:

- Regions and prefectures are listed in right-hand column.
- Scroll down to find map of regions and prefectures.

JSPS Postdoctoral Fellowship for Foreign Researcher
(FY 2005 Humanities and Social Sciences)

| Name (Nationality) | Research Subject | Host Institute Host Researcher | Period | Region Prefecture |
|----------------------------|---|---|--------------------------------|----------------------|
| AAKRE, B. M. NORWAY | Design and Entrepreneurship Education in Japan and Norway | Hokkaido Tokai University KAWASAKI, Kazuhiko Professor <i>School of International Cultural Relations</i> | Nov. 1, 2005— Feb. 28, 2007 | Hokkaido Hokkaido |
| ABDUL, W. PAKISTAN | Public Debt Burden and Slow Economic Growth: A Case Study of Severely Indebted Low Income Country | University of Nagoya EZAKI, Mitsuo Professor <i>Graduate School of International Development</i> | Apr. 1, 2005— Mar. 31, 2007 | Chubu Aichi |
| AKSARTOVA, S. | The Impact of the End of the Cold War on Japan's | Hosei University KAWASAKI, Nobuyuki | Nov. 1, 2005— Oct. 31, 2006 | Kanto Tokyo |

Region
Prefecture

Hokkaido
Hokkaido

Chubu
Aichi

Kanto
Tokyo

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FY 2009 Mathematical and Physical Sciences

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|-----------------------------------|--|---|---------------------------------|----------------------|
| ABBARCHI, M. ITALY | Spectroscopic investigation of semiconductor nanostructures, and photonic crystal microcavities | National Institute for Materials Science SAKODA, Kazuaki Managing Director Quantum Dot Research Center | Sep. 1, 2009~ Aug. 31, 2010 | Kanto Ibaraki |
| AGONAFIR, D. M. ETHIOPIA | Hf-Li-B isotopic systematics for the Afar plume composition, NE Africa | University of the Ryukyus SHINJO, Ryuichi Professor Faculty of Sciences | Nov. 2, 2009~ Mar. 1, 2011 | Okinawa Okinawa |
| ANTHONY, J. K. INDIA | Efficient organic inorganic hybrid nanomaterials for photonic devices | The University of Electro-Communications KATSURAGAWA, Masayuki Associate Professor | Nov. 4, 2009~ Nov. 3, 2011 | Kanto Tokyo |
| ANTOINE, R. FRANCE | We want to study fluids flows (air and water) within Piton de La Fournaise volcano (Reunion Island, France) and Mihara Mont (Japan) and their implications for the thermal budget and volcanic hazards | The University of Tokyo KURITA, Kei Professor Earthquake Research Institute | Nov. 20, 2009~ Nov. 19, 2011 | Kanto Tokyo |
| ARCADIAS, R. FRANCE | Minimal free resolutions of modules over rings of linear differential operators, hypergeometric systems | Tokyo Woman's Christian University Oaku, Toshinori Professor School of Arts and Sciences | Oct. 31, 2009~ Jul. 30, 2011 | Kanto Tokyo |
| BALLMER, S. W. SWITZERLAND | Reduction of quantum noise for the 3rd-generation gravitational wave detectors | National Institutes of Natural Sciences KAWAMURA, Seiji Associate Professor National Astronomical Observatory of Japan | Aug. 25, 2009~ Nov. 24, 2009 | Kanto Tokyo |
| BHOBE, P. A. INDIA | A systematic study of the electronic structure and magnetic properties of transition metal nitrides | The University of Tokyo SHIN, Shik Professor Institute for Solid State Physics | Apr. 1, 2009~ Mar. 31, 2011 | Kanto Chiba |
| BLAZQUEZ SANZ, D. SPAIN | New Developments of Differential Galois Theory in Dynamical Systems | Niigata University YAGASAKI, Kazuyuki Professor Institute of Science and Technology | Nov. 16, 2009~ Nov. 15, 2010 | Chubu Niigata |

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|---------------------------------------|--|---|---------------------------------|----------------------|
| BRICKER, J. D. U.S.A. | Observations and modeling of turbulence, river plumes, and harmful algae blooms in Tokyo Bay | Tokyo University of Marine Science and Technology YAMAZAKI, Hidekatsu Professor Faculty of Marine Science and Technology | Sep. 1, 2009~ Feb. 19, 2010 | Kanto Tokyo |
| BRUHN-FUJIMOTO, H. GERMANY | Hamilton cycles in infinite graphs, and characterisation of t-perfect graphs | Nihon University SAITO, Akira Professor College of Humanities and Sciences | Oct. 1, 2009~ Sep. 30, 2010 | Kanto Tokyo |
| CAO, L.-M. CHINA | Holographic Principle and Exact Solutions in Supergravity and Higher Derivative Gravity Theory | Kinki University OHTA, Nobuyoshi Professor School of Science and Engineering | Oct. 15, 2009~ Oct. 14, 2011 | Kinki Osaka |
| CHEN, Q. CHINA | Creation of Highly-Ordered Core-Shell Nanoparticles Using Liquid-Plasma Systems | Tohoku University HATAKEYAMA, Rikizo Professor Graduate School of Engineering | Nov. 30, 2009~ Nov. 29, 2011 | Tohoku Miyagi |
| CHO, J. KOREA (REP. OF KOREA) | Research on the volume conjecture of knots | Waseda University MURAKAMI, Jun Professor Faculty of Science and Engineering | Oct. 1, 2009~ Sep. 30, 2011 | Kanto Tokyo |
| CHOI, S. KOREA (REP. OF KOREA) | Toric topology and Combinatorics | Osaka City University MASUDA, Mikiya Professor Graduate School of Science | Sep. 1, 2009~ Aug. 31, 2011 | Kinki Osaka |
| COUPON, J. FRANCE | Cosmology, weak gravitational lensing using CFHTLS and Subaru data | Tohoku University FUTAMASE, Toshifumi Professor Graduate School of Science | Nov. 27, 2009~ Nov. 26, 2011 | Tohoku Miyagi |
| DE FELICE, A. ITALY | Probing the origin of dark energy based on modified gravity and particle physics | Tokyo University of Science TSUJIKAWA, Shinji Associate Professor Department of Physics | Sep. 29, 2009~ Sep. 28, 2011 | Kanto Tokyo |

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| DOLINSKY, J. SLOVAKIA | Nonlinear statistical modeling complex and hyper-complex numbers | Kyushu University NINOMIYA, Yoshiyuki Associate Professor Faculty of Mathematics | Oct. 26, 2009~ Oct. 25, 2011 | Kyushu Fukuoka |
| DOUKAS, J. A. AUSTRALIA | Black hole phenomenology | Kyoto University SASAKI, Misao Professor Yukawa Institute for Theoretical Physics | Nov. 25, 2009~ Nov. 24, 2011 | Kinki Kyoto |
| EVERITT, M. S. UNITED KINGDOM | A comparative numerical study of error propagation in quantum information processing architectures | National Institute of Informatics NEMOTO, Kae Associate Professor National Institute of Informatics | Nov. 26, 2009~ Nov. 25, 2011 | Kanto Tokyo |
| GHASEMI, H. IRAN | Next Generation Prediction of Earthquake Ground Motion based on Dense Observations and Simulations | The University of Tokyo KOKETSU, Kazuki Professor Earthquake Research Institute | May. 1, 2009~ Apr. 30, 2011 | Kanto Tokyo |
| GHIMIRE, S. NEPAL | Identification of asperities of future great earthquakes: contributions for tsunami warning systems | Hokkaido University TANIOKA, Yuichiro Associate Professor Graduate School of Science | Aug. 20, 2009~ Aug. 19, 2011 | Hokkaido Hokkaido |
| HEGDE, P. INDIA | Chemical compositions and hygroscopic properties of Indian and Himalayan aerosols | Hokkaido University KAWAMURA, Kimitaka Professor Institute of Low Temperature Science | Apr. 22, 2010~ Apr. 21, 2010 | Hokkaido Hokkaido |
| IBRAHIM, H. N. GERMANY | Non linear wave packet interferometry at adjustable coherence to reconstruct unknown wave functions | National Institutes of Natural Sciences OHMORI, Kenji Professor Institute for Molecular Science | May. 11, 2009~ Aug. 10, 2010 | Chubu Aichi |
| JACQUET, P. SWITZERLAND | Nonequilibrium properties of quantum chaotic many particle systems | Kwansei Gakuin University TANIGUCHI, Tooru Associate Professor Department of Physics | Sep. 30, 2009~ Sep. 29, 2011 | Kinki Hyogo |

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| JEONG, K. KOREA (REP. OF KOREA) | Model building and Phenomenology of theories for physics beyond the Standard Model | Tohoku University YAMAGUCHI, Masahiro Professor Graduate School of Science | Nov. 25, 2009~ Nov. 24, 2011 | Tohoku Miyagi |
| JUNG, J. KOREA (REP. OF KOREA) | Water-soluble organic aerosol in East Asia: composition, hygroscopicity and impact on climate change | Hokkaido University KAWAMURA, Kimitaka Professor Institute of Low Temperature Science | Sep. 30, 2009~ Sep. 29, 2011 | Hokkaido Hokkaido |
| KAO, P.-W. AUSTRALIA | Supersymmetry in grobal T-Duality | Keio University MAEDA, Yoshiaki Professor Faculty of Science and Technology | Sep. 28, 2009~ Sep. 27, 2011 | Kanto Kanagawa |
| KHAZAEI, M. IRAN | Quantum design of new high pressurized materials: implication in Geo-materials science | Tohoku University KAWAZOE, Yoshiyuki Professor Institute for Materials Research | Oct. 1, 2009~ Sep. 30, 2011 | Tohoku Miyagi |
| KIRILIN, G. RUSSIA FEDERATION | Simulating hadron collider events using effective field theory | High Energy Accelerator Research Organization HAGIWARA, Kaoru Professor Institute of Particle and Nuclear Studies | Nov. 1, 2009~ Oct. 31, 2011 | Kanto Ibaraki |
| LAINE, A. FRANCE | Multi-model study of the Northern hemisphere storm track variability in different climates | The University of Tokyo NAKAMURA, Hisashi Associate Professor Graduate School of Science | Nov. 16, 2009~ Nov. 15, 2011 | Kanto Tokyo |
| LEMMA, F. FRANCE | Iwasawa theory of Siegel modular forms | Osaka University OCHIAI, Tadashi Associate Professor Graduate School of science | Nov. 2, 2009~ Nov. 1, 2011 | Kinki Osaka |
| LIU, G. CHINA | Quiver, deformations and Hopf algebras | University of Tsukuba MASUOKA, Akira Associate Professor Graduate School of Pure and Applied Sciences | Nov. 22, 2009~ Nov. 21, 2011 | Kanto Ibaraki |

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| LIU, X. CHINA | Formation of organic aerosol and its physical and chemical characteristics in East Asia | The University of Tokyo KONDO, Yutaka Professor Research Center for Advanced Science and Technology | Nov. 4, 2009~ Nov. 3, 2011 | Kanto Tokyo |
| LIU, Y.-R. CHINA | Understanding the nature of new exotic heavy-quark hadrons through dynamics analysis | Tokyo Institute of Technology OKA, Makoto Professor Graduate School of Science and Engineering | Aug. 26, 2009~ Aug. 25, 2011 | Kanto Tokyo |
| MOHAN, S. INDIA | Jc improvement & elucidation of pairing symmetry in FeAs superconductors by magneto-optical imaging | The University of Tokyo TAMEGAI, Tsuyoshi Associate Professor School of Engineering | Nov. 25, 2009~ Nov. 24, 2011 | Kanto Tokyo |
| NARUKULL, V. INDIA | AA study on atmospheric dynamics in the MLT region and their effects on ionospheric irregularities | Kyoto University TSUDA, Toshitaka Professor Research Institute for Sustainable Humanosphere | Sep. 1, 2009~ Oct. 31, 2011 | Kinki Kyoto |
| NOLLA DE CELIS, A. SPAIN | Crepan resolutions, G-Hilb and the moduli space of quiver representations for non-abelian groups | Nagoya University ITO, Yukari Associate Professor Graduate School of Mathematics | Sep. 30, 2009~ Feb. 28, 2012 | Chubu Aichi |
| OROZCO SUAREZ, D. SPAIN | Investigation on Magnetohydrodynamical Phenomena of the Sun with Hinode Satellite | National Institutes of Natural Sciences SUEMATSU, Yoshinori Associate Professor National Astronomical Observatory of Japan | Nov. 1, 2009~ Oct. 31, 2011 | Kanto Tokyo |
| PANDEY, S. INDIA | Theoretical study of strongly correlated electron systems with emphasis on spin degrees of freedom | Nagoya University HIRASHIMA, Dai Professor Graduate school of Science | Jul. 27, 2009~ Jul. 26, 2011 | Chubu Aichi |
| PRISTAS, G. SLOVAKIA | Study of localized-delocalized transition in samarium and ytterbium based heavy Fermion compounds | University of Hyogo KOHARA, Takao Professor Graduate School of Material Science | May. 10, 2009~ May. 9, 2011 | Kinki Hyogo |

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| RUGGIERI, M. ITALY | Clarification of the Dense QCD Phase Structure | Kyoto University OHNISHI, Akira Professor Yukawa Institute for Theoretical Physics | Sep. 28, 2009~ Sep. 27, 2011 | Kinki Kyoto |
| SAADI, N. M. LIBYA | Development of Data Integration and Machine Learning Algorithm for Hydrocarbon Prediction | Kyushu University WATANABE, Koichiro Professor Faculty of Engineering | Oct. 1, 2009~ Sep. 30, 2011 | Kyushu Fukuoka |
| SHIN, S.-H. KOREA (REP. OF KOREA) | Impact of refined PBL scheme in climate model: present climate and future change | Meteorological Research Institute KITOH, Akio Director Climate Research Department | Sep. 1, 2009~ Aug. 31, 2011 | Kanto Ibaraki |
| TERESHINA, E. A. RUSSIA FEDERATION | The f-d intermetallic compounds in high magnetic fields: structure, magnetic and related properties | Tohoku University WATANABE, Kazuo Associate Professor Institute for Materials Research | Nov. 15, 2009~ Nov. 14, 2011 | Tohoku Miyagi |
| WUNSCH, M. AUSTRIA | Applied analysis of nonlinear partial differential equations arising in fluid mechanics and others | Kyoto University OKAMOTO, Hisashi professor Research Institute for Mathematical Sciences | Apr. 1, 2009~ Mar. 31, 2011 | Kinki Kyoto |
| XIE, Y. CHINA | Mechanism of current-processing induced anisotropic conduction in manganite thin films | The University of Tokyo HWANG, Harold Associate Professor Graduate School of Frontier Sciences | Jul. 28, 2009~ Jul. 27, 2011 | Kanto Chiba |
| YOUNG, C. UNITED KINGDOM | Algebraic Structures in Physical Systems | Kyoto University SASAKI, Ryu Associate Professor Yukawa Institute for Theoretical Physics | Oct. 14, 2009~ Oct. 31, 2010 | Kinki Kyoto |
| YU, D. CHINA | Development of highly accurate optical lattice clock and application to quantum information science | The University of Tokyo KATORI, Hidetoshi Associate Professor Department of Applied Physics, Graduate School of Engineering | Nov. 2, 2009~ Nov. 1, 2011 | Kanto Tokyo |

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| ZHANG, M. CHINA | Knot Theory and 3- and 4-dimensional manifolds | Osaka City University KAWAUCHI, Akio Professor Graduate School of Science | Nov. 5, 2009~ Nov. 4, 2011 | Kinki Osaka |
| ZUO, Z. CHINA | Study on the Rydberg blockade effect of laser-cooled Rb atoms in an optical trap | The University of Electro-Communications NAKAGAWA, Ken-ichi Associate Professor Institute for Laser Science | Apr. 1, 2009~ Mar. 31, 2011 | Kanto Tokyo |