Personal details

Name Yoshihiko NISHIKAWA

Birth 11 May 1990

Position Project Assistant Professor at Graduate School of Information Sciences, Tohoku University

Education

2015–2018 Ph. D.
Graduate School of Arts and Sciences, The University of Tokyo
Supervisor: Koji Hukushima

2013–2015 M. A.
Graduate School of Arts and Sciences, The University of Tokyo
Supervisor: Koji Hukushima

2009–2013 B. A.
Department of Basic Science, The University of Tokyo

Research Experience

2021–present Graduate School of Information Sciences, Tohoku University
Project Assistant Professor

2019–2021 Laboratoire Charles Coulomb (L2C), Université de Montpellier, CNRS
Postdoctoral Researcher in Group of Dr. Ludovic Berthier

2018–2019 Laboratoire de Physique Statistique, Ecole Noramle Supérieure de Paris
Visiting Researcher in Group of Dr. Werner Krauth

Fellowships and grants

2022–2027 JSPS, Grant-in-Aid for Early-Career Scientists (Grant No. 22K13968)

2017–2019 JSPS, Grant-in-Aid for JSPS Fellows (Grant No. 17J10496)

2018–2019 JSPS Research Fellowship for Young Scientists (PD)

2017–2018 JSPS Research Fellowship for Young Scientists (DC2)

Publications

1. Y. Nishikawa, M. Michel, W. Krauth, and K. Hukushima,
"Event-chain algorithm for the Heisenberg model: Evidence for $z \simeq 1$ dynamic scaling",
Physical Review E **92**, 063306 (2015).
2. Y. Nishikawa and K. Hukushima,
"Phase transitions and ordering structures in a model of chiral helimagnet in three dimensions",
Physical Review B **94**, 064428 (2016).
3. Y. Nishikawa and K. Hukushima,
"Event-chain Monte Carlo algorithm for continuous spin systems and its application",
Journal of Physics: Conference Series **750**, 012014 (2016).
4. Y. Nishikawa, K. Hukushima, and W. Krauth,
"Solid–liquid transitions of skyrmions in two-dimension chiral magnet",
Physical Review B **99**, 064435 (2019).
5. Y. Nishikawa and K. Hukushima,
"Lattice Glass Model in Three Spatial Dimensions",
Physical Review Letters **125**, 065501 (2020).
6. Y. Nishikawa, A. Ikeda, and L. Berthier,
"Relaxation Dynamics of Non-Brownian Spheres Below Jamming",
Journal of Statistical Physics **182**, 37 (2021).

7. Y. Nishikawa, M. Ozawa, A. Ikeda, P. Chaudhuri, and L. Berthier, *"Relaxation Dynamics in the Energy Landscape of Glass-Forming Liquids"*, Physical Review X **12**, 021001 (2022).
8. Y. Nishikawa, A. Ikeda, and L. Berthier *"Collective dynamics in a glass-former with Mari-Kurchan interactions"*, Journal of Chemical Physics 156, 244503 (2022)

Teaching experience

2013–2014 Statistical Physics at the University of Tokyo (Teaching Assistant)

2014–2015 Electromagnetism at the University of Tokyo (Teaching Assistant)

Others

1. *stresampling* :Python package for statistical analysis of stationary timeseries using resampling methods