

Stanford



Yusuke Iguchi

Sr Res Scientist-Physical

Academic Units

 Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

- Sr Res Scientist-Physical, Academic Units
- Staff Scientist, Stanford Institute for Materials and Energy Sciences

HONORS AND AWARDS

- Overseas Research Fellowship, Japan Society for the Promotion of Science (2018/04)
- JPSJ Papers of Editors' Choice, Journal of Physical Society of Japan (2017/01)
- Research Fellowship DC2, Japan Society for the Promotion of Science (2016/04)
- Outstanding Graduate Student Award, Graduate School of Arts and Sciences, The University of Tokyo (2015/03)

PROFESSIONAL EDUCATION

- Postdoc, Department of Applied Physics, Stanford University (2020)
- Ph.D., Department of Basic Science, The University of Tokyo, Tokyo (2018)
- M.S., Department of Basic Science, The University of Tokyo, Tokyo (2015)
- B.S., Department of Physics, Tokyo University of Science, Tokyo (2013)

LINKS

- My homepage: <https://yiguchi-condmat-eng.webnode.jp/>
- My homepage(Japanese): <https://yusuke-iguchi-personal-page.webnode.jp/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

His research specialties are in experimental condensed matter physics, magnetic excitations in microwave region, magnetic scanning probe microscopy, multiferroics, and unconventional superconductors. Currently his interest is in the unconventional superconductors such as heavy fermion and iron based ones.

Publications

PUBLICATIONS

- **Local observation of linear-T superfluid density and anomalous vortex dynamics in URu2Si2** *PHYSICAL REVIEW B*
Iguchi, Y., Zhang, I. P., Bauer, E. D., Ronning, F., Kirtley, J. R., Moler, K. A.
2021; 103 (22)

- **Imaging anisotropic vortex dynamics in FeSe** *PHYSICAL REVIEW B*
Zhang, I. P., Palmstrom, J. C., Noad, H., Bishop-Van Horn, L., Iguchi, Y., Cui, Z., Mueller, E., Kirtley, J. R., Fisher, I. R., Moler, K. A.
2019; 100 (2)
- **Microwave nonreciprocity of magnon excitations in the noncentrosymmetric antiferromagnet Ba₂MnGe₂O₇** *PHYSICAL REVIEW B*
Iguchi, Y., Nii, Y., Kawano, M., Murakawa, H., Hanasaki, N., Onose, Y.
2018; 98 (6)
- **Magnetolectrical control of nonreciprocal microwave response in a multiferroic helimagnet** *NATURE COMMUNICATIONS*
Iguchi, Y., Nii, Y., Onose, Y.
2017; 8: 15252
- **Microwave Magnetochiral Effect in the Non-centrosymmetric Magnet CuB₂O₄** *JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN*
Nii, Y., Sasaki, R., Iguchi, Y., Onose, Y.
2017; 86 (2)
- **Nonreciprocal propagation of surface acoustic wave in Ni/LiNbO₃** *PHYSICAL REVIEW B*
Sasaki, R., Nii, Y., Iguchi, Y., Onose, Y.
2017; 95 (2)
- **Terahertz Radiation by Subpicosecond Magnetization Modulation in the Ferrimagnet LiFe₅O₈** *ACS PHOTONICS*
Kinoshita, Y., Kida, N., Sotome, M., Miyamoto, T., Iguchi, Y., Onose, Y., Okamoto, H.
2016; 3 (7): 1170–75
- **Nonreciprocal magnon propagation in a noncentrosymmetric ferromagnet LiFe₅O₈** *PHYSICAL REVIEW B*
Iguchi, Y., Uemura, S., Ueno, K., Onose, Y.
2015; 92 (18)
- **Uniaxial-Pressure Effects on Spin-Driven Lattice Distortions in Geometrically Frustrated Magnets CuFe_{1-x}GaxO₂ (x=0, 0.035)** *JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN*
Nakajima, T., Iguchi, Y., Tamatsukuri, H., Mitsuda, S., Yamasaki, Y., Nakao, H., Terada, N.
2013; 82 (11)