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### 招待講演

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- [13] Observation of Unquantized Vortices in Superconductor  
**Quantum Seminar**, Tsung-Dao Lee Institute, Shanghai(online), Oct 11, 2023
- [12] Observation of Un-quantized Fluxes in Superconducting Vortices  
**7th KUJI QMAT Seminar**, Cambridge, Kyoto, Seoul, and Salerno (online), Sep 7, 2023
- [11] Unlocking the Mystery of Magnetic Trapping: Insights from Superconducting Vortices  
**12th Japanese Academic Seminars at Stanford**, Stanford University, CA, July 18, 2023
- [10] Microscopic imaging homogeneous and single phase superfluid density in  $UTe_2$   
**UTe<sub>2</sub> seminar** (online), Tohoku University and University of Grenoble Alpes, Dec 7, 2022
- [9] Scanning SQUID microscopy on unconventional superconductors  
**Onose Lab seminar**, Tohoku University, Miyagi, Aug 30, 2022
- [8] Scanning SQUID microscopy on chiral superconductor candidates  
**Matsueda Lab seminar**, Tohoku University, Miyagi, Aug 30, 2022
- [7] Non-reciprocity of magnon excitations in non-centrosymmetric magnets  
**59th Risou Doctoral group**, Tokyo University of Science, Tokyo(online), Dec 4, 2021
- [6] Persistent electrical current  
**73rd Berkeley Japanese Academic Network**, UC Berkeley CA(online), June 22, 2021
- [5] Scanning SQUID Microscopy on Chiral Superconductor Candidates  $Sr_2RuO_4$  and  $URu_2Si_2$   
**32nd International Symposium on Superconductivity** (Kyoto, 2019), PC1-1-INV
- [4] Learning Superconductivity by Imaging  
**11th Stanford Visitors Meetup**, Stanford University CA, Oct 28, 2019
- [3] Looking into the world of superconductivity by using a scanning SQUID microscope  
**56th Berkeley Japanese Academic Network**, UC Berkeley CA, Aug 26, 2019
- [2] Study of "unconventional" superconductors using scanning SQUID microscopy  
**JSPS Researcher Gatherings**, Berkeley CA, Aug 13, 2019
- [1] Nonreciprocal microwave responses in noncentrosymmetric magnets  
**NTT Basic Research Laboratories**, Japan, March 22, 2017.

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- [19] **Y. Iguchi**, R.A. Shi, K. Kihou, C.-H. Lee, M. Barkman, A. Benfenati, V. Grinenko, E. Babaev, and K. A. Moler,  
Observation of superconducting vortices carrying a temperature-dependent fraction of the flux quantum, (Oral)  
**American Physical Society March Meeting 2023** (Las Vegas), Session Y28.00004
- [18] E. Mueller, **Y. Iguchi**, C. Watson, C. Hicks, Y. Maeno, and K. A. Moler,  
Constraints on a split superconducting transition under uniaxial strain in  $\text{Sr}_2\text{RuO}_4$  from scanning SQUID microscopy, (Oral)  
**American Physical Society March Meeting 2023**(Las Vegas), Session Y22.00008
- [17] R. Shi, K. Lee, B.Y. Wang, **Y. Iguchi**, H. Y. Hwang, K. Moler,  
Direct observation of vortices in infinite-layer nickelate superconductors, (Oral)  
**American Physical Society March Meeting 2023**(Las Vegas), Session S19.00006
- [16] **Y. Iguchi**,  
Imaging edge fields on chiral superconductor candidate  $\text{UTe}_2$ , (Oral)  
**29th International Conference on Low Temperature Physic (LT29) at Sapporo**, Session 22A-SF2A-03
- [15] **Y. Iguchi**, H. Man, S.M. Thomas, F. Ronning, P. Rosa, K. Moler  
Microscopic imaging of  $\text{UTe}_2$  by scanning SQUID microscopy, (Oral)  
**American Physical Society March Meeting 2022**(Chicago), Session Y65.00002
- [14] H. Man, **Y. Iguchi**, J. Bao, D.Y. Chung, M.G. Kanatzidis, K. Moler  
Superconductivity coexisting with ferromagnetic order in  $\text{RbEuFe}_4\text{As}_4$  studied by scanning SQUID microscopy, (Oral)  
**American Physical Society March Meeting 2022**(Chicago), Session W69.00012
- [13] R. Shi, B.Y. Wang, **Y. Iguchi**, M. Osada, K. Lee, H. Y. Hwang, K. Moler  
Coexistence of ferromagnetism and superconductivity in infinite-layer nickelates, (Oral)  
**American Physical Society March Meeting 2022**(Chicago), Session T57.00005
- [12] **Y. Iguchi**, J.A. Straquadine, J.R. Kirtley, A. Singh, I.R. Fisher, and K.A. Moler  
Non BCS-like superfluid density in a disordered charge density wave material: Pd-intercalated  $\text{ErTe}_3$ (Oral)  
**American Physical Society March Meeting 2021**(Online), Session A47.00008
- [11] E. Mueller, **Y. Iguchi**, C. Watson, C.W. Hicks, Y. Maeno, and K.A. Moler  
Effect of uniaxial strain on the superconducting state of  $\text{Sr}_2\text{RuO}_4$ , (Oral)  
**American Physical Society March Meeting 2021**(Online), Session V47.00002
- [10] **Y. Iguchi**  
Local rotational symmetry breaking of superconducting phase in  $\text{URu}_2\text{Si}_2$ , (Oral, Poster)  
**Canadian Institute of Foundation for Advanced Research Quantum Materials Program Meeting 2019** (Vancouver) Poster session, and Summer school 2019 (University of British Columbia), Oral & Poster session
- [9] I. Zhang, L.B.-V. Horn, J. Palmstrom, J.R. Kirtley, **Y. Iguchi**, I.R. Fisher, K.A. Moler  
Imaging Anisotropic Vortex Motion in  $\text{FeSe}$ , (Poster)  
**XVII International Workshop on Vortex Matter in Superconductors** (Vortex 2019) (Antwerp), Poster Session RSP.22

- [8] **Y. Iguchi**, I.P. Zhang, E.D. Bauer, F. Ronning, J.R. Kirtley, and K.A. Moler  
Study of chiral d-wave superconductor candidate URu<sub>2</sub>Si<sub>2</sub> by using scanning SQUID microscopy,  
(Oral)  
**American Physical Society March Meeting 2019** (Boston), X08.00010
- [7] I. Zhang, L.B.-V. Horn, J. Palmstrom, J.R. Kirtley, **Y. Iguchi**, I.R. Fisher, K.A. Moler  
Anisotropic Vortex Pinning in Single Crystal FeSe, (Oral)  
**American Physical Society March Meeting 2019** (Boston), X10.00010
- [6] **Y. Iguchi**, Y. Nii, H. Murakawa, N. Hanasaki, and Y. Onose  
Non-reciprocal microwave response of antiferromagnetic magnons in a multiferroic  
Ba<sub>2</sub>MnGe<sub>2</sub>O<sub>7</sub>, (Oral)  
**American Physical Society March Meeting 2018** (Los Angeles), H23.00009
- [5] **Y. Iguchi**, Y. Nii, and Y. Onose  
Microwave response of antiferromagnetic magnons in a multiferroic Ba<sub>2</sub>MnGe<sub>2</sub>O<sub>7</sub>, (Poster)  
**Junjiro Kanamori Memorial International Symposium 2017**(Tokyo), P56
- [4] **Y. Iguchi**, Y. Nii, and Y. Onose  
Magnetolectrical control of nonreciprocal microwave response in a multiferroic helimagnet,  
(Oral)  
**American Physical Society March Meeting 2017** (New Orleans), F50.00008
- [3] R. Sasaki, Y. Nii, **Y. Iguchi**, and Y. Onose  
Nonreciprocal propagation of surface acoustic waves in Ni/LiNbO<sub>3</sub>, (Oral)  
**American Physical Society March Meeting 2017** (New Orleans), A47.00013
- [2] **Y. Iguchi**  
Magnetolectrical control of nonreciprocal microwave response in a multiferroic helimagnet,  
(Poster)  
**CEMS-QPEC Symposium on Emergent Quantum Materials 2017** (Tokyo), P29
- [1] **Y. Iguchi**, S. Uemura, K. Ueno, and Y. Onose  
Nonreciprocal magnon propagation in a noncentrosymmetric ferromagnet LiFe<sub>5</sub>O<sub>8</sub>, (Oral)  
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- [13] 井口雄介, H. Man, S.M. Thomas, F. Ronning, J. Ishizuka, M. Sigrist, P.F.S. Rosa, and K.A.  
Moler  
走査型 SQUID 顕微鏡を利用したカイラル超伝導候補物質 UTe<sub>2</sub> の局所超伝導状態の観  
測, (口頭発表)  
日本物理学会 2022年秋季大会(東工大)、領域8 12pW521-5
- [12] 井口雄介, J.A. Straquadine, J.R. Kirtley, A. Singh, I.R. Fisher, and K.A. Moler  
乱れた電荷密度波物質 PdxErTe<sub>3</sub> における非 BCS 型超流動密度の観測, (口頭発表)  
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- [10] 井口雄介, 新居陽一, 小野瀬佳文  
マルチフェロイクス Ba<sub>2</sub>MnGe<sub>2</sub>O<sub>7</sub> における反強磁性マグノンのマイクロ波応答, (口頭発表)  
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- [9] 濱原義明, 新居陽一, 井口雄介, 小野瀬佳文  
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- [6] 佐々木遼, 新居陽一, 井口雄介, 小野瀬佳文  
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- [5] 木下雄斗, 貴田徳明, 宮本辰也, 矢田祐之, 井口雄介, 小野瀬佳文, 岡本博  
フェムト秒レーザー誘起高速磁化変調によるテラヘルツ電磁場発生を利用したフェリ磁性体 LiFe<sub>5</sub>O<sub>8</sub> における磁化ダイナミクスの観測, (口頭発表)  
日本物理学会 2 0 1 5 年秋季大会(関西大学)、領域 5 16pCF-9
- [4] 井口雄介, 上村宗一郎, 上野和紀, 小野瀬佳文  
空間反転対称性が破れた強磁性体 LiFe<sub>5</sub>O<sub>8</sub> における高波数マグノン励起のマイクロ波応答, (口頭発表)  
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- [3] 木下雄斗, 貴田徳明, 宮本辰也, 矢田祐之, 井口雄介, 小野瀬佳文, 岡本博  
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日本物理学会第 7 0 回年次大会(早稲田大学)、領域 5 23pCP-6
- [2] 井口雄介, 小野瀬佳文  
空間反転対称性が破れた磁性体 LiFe<sub>5</sub>O<sub>8</sub> におけるマイクロ波応答, (口頭発表)  
日本物理学会第 6 9 回年次大会(東海大学)、領域 3・領域 8 合同 29pAY-6
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フラストレートした磁性体 CuFe<sub>1-x</sub>Ga<sub>x</sub>O<sub>2</sub>( $x=0,0.035$ )の一軸圧力中放射光 X 線回折, (口頭発表)  
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