

REIMEI &GIMRT International workshop:

## Quantum Beams Study of the Dynamics of Rare Earth Garnets

From 7<sup>th</sup> Aug.(Mon) to 8<sup>th</sup> Aug.(Tue) 2023

Auditorium, Institute for Materials Research, Tohoku University, Sendai, Japan

07.08.2023 (Monday)

10:00 Reception

10:20 Opening K. Takanashi (JAEA)

10:30 Talk1 D. Mannix (ESS)

[Exploiting Polarised neutron and X-ray synergies to reveal magnetic structure and dynamics in spin caloritronics](#)

11:00 Talk2 J. Miyawaki (QST)

[Quantum material research by resonant inelastic soft X-ray scattering facility at NanoTerasu](#)

11:30 Talk3 R. Kohno (Tohoku U.)

[Non-local magnon transconductance in extended rare-earth magnetic garnet films](#)

12:00 Lunch (2H)

14:00 Talk4 S. Geprägs (Walther-Meißner-Institut)

[Rare-earth iron garnets: A prototype material system for spintronics and magnonics](#)

14:30 Talk5 V. Peçanha-Antonio (U. Oxford)

[Rare earth iron garnets from the neutron scatter viewpoint](#)

15:00 Talk6 S. Shamoto (CROSS)

[Spin-lattice coupling in yttrium iron garnet studied by neutron scattering under ultrasound injection](#)

15:30 Break

16:00 Talk7 B. Tomasello (U. Kent)

[Role of magneto-crystalline anisotropies in complex rare-earth garnets](#)

16:30 Talk8 Y. Kawamoto (Tohoku U.)

[Neutron scattering studies for spin dynamics in terbium iron garnet](#)

18:00 Banquet

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08.08.2023 (Tuesday)

- 9:30 Talk9 J. Puebla (RIKEN)  
[Mid-infrared spectroscopy characterization of spintronic structures](#)
- 10:00 Talk10 H. Chudo (JAEA)  
[Observation of the angular momentum compensation by using the Barnett effect](#)
- 10:30 Break
- 11:00 Talk11 K. Harii (QST)  
[Modification of magnetic properties in garnets caused by swift ion beam irradiation](#)
- 11:30 Talk12 A. Nakamura (RIKEN)  
[Acoustically induced nonlocal magnetic domain dynamics in ferromagnet thin film revealed by ultrafast transmission electron microscopy](#)
- 12:00 Lunch (2H)
- 14:00 Talk13 J. Thomas-Hunt (Aarhus U.)  
[Renewed investigation of the double umbrella](#)
- 14:30 Talk14 Y. Omori (NEC)  
[Combinatorial experiments of FMR on magnetic garnet films](#)
- 15:00 Break
- 15:30 Talk15 R. Hisatomi (Kyoto U.)  
[Vorticity-inversion Brillouin light scattering by magnons in yttrium iron garnet crystal](#)
- 16:00 Talk16 T. Hioki (U. Tokyo)  
[Coherent dynamics of hybridized magnons and phonons](#)
- 16:30 Closing S. Maekawa (RIKEN)