

Poster programme of the 2nd Transnational Round Table on Magnonics, High-Frequency Spintronics, and Ultrafast Magnetism (TRTM 2025), Exeter, 16 – 20 June 2025

1. **Alexandra Schrader** "All-Magnonic Frequency Multiplication in Ferromagnetic Microstructures"
2. **Andrey Shytov** "Magnonic resonators as building blocks of reservoir computers"
3. **Anton Lutsenko** "Magnonic Fabry-Pérot resonators as programmable phase shifters"
4. **Daowei Wang** "Guided exchange-dipole spin wave in monolayer CrSBr"
5. **David Eilmsteiner** "First principles approach to non-collinear magnetization dynamics"
6. **David Osuna Ruiz** "Localized Spin Wave Modes in the Fishnet Metamaterial"
7. **Feodor Ogrin** "3D FDTD-LLG modelling of magnetisation dynamics in thin film ferromagnetic structures"
8. **Feodor Ogrin** "Magnetodielectric Composites: High-frequency simulation design"
9. **Hao Zhang** "Magnetic crystal reconstruction and optimisation using Graph Neural Networks"
10. **Jarosław Kłos** "Local control of magnetization dynamics in ferromagnetic-superconducting hybrids"
11. **Julian Fischer** "Spin dynamics in disordered systems and in the presence of the compass anisotropy"
12. **Junyoung Hyun** "Spin-wave transport controlled by the magnetic state of CoFeB nanodisk arrays on a YIG film"
13. **Kevin Fripp** "Magnonic full adder using chiral magnonic resonators (magnonic neurons)"
14. **Krzysztof Sobucki** "Control of spin-wave scattering on disc nano-resonators in vortex magnetisation state"
15. **Maciej Krawczyk** "Spin-wave dynamics in crescent shape nanorods"
16. **Madeleine Hales** "Phonon-Driven Spin Dynamics in Rare-Earth Orthoferrites across Spin-Reorientation Temperatures"
17. **Mateusz Zelent** "Multistable skyrmions: enhanced stability of skyrmions by the magnetostatic field of ferromagnetic rings"
18. **Matthew Ellis** "Learning stochastic models of nano-magnetic device behaviour for neuromorphic computing"
19. **Nikodem Leśniewski** "Bowtie-shaped resonators for neural network applications"
20. **Prapti Mukherjee** "Magnon transport in two dimensional (anti)ferromagnets using different manipulations"
21. **Paul Keatley** "Exploring ultrafast magnetic processes of low-dimensional ferromagnets using EXTREMAG"
22. **Takashi Manago** "Control of the magnonic band gap in magnonic crystals by barrier width modulation"
23. **Thomas Thomson** "Terahertz emission from CoFeB/Pt_{1-x}Cu_x spintronic structures"
24. **Yuzhu Fan** "Spatiotemporal observation of surface plasmon polariton mediated ultrafast demagnetization"