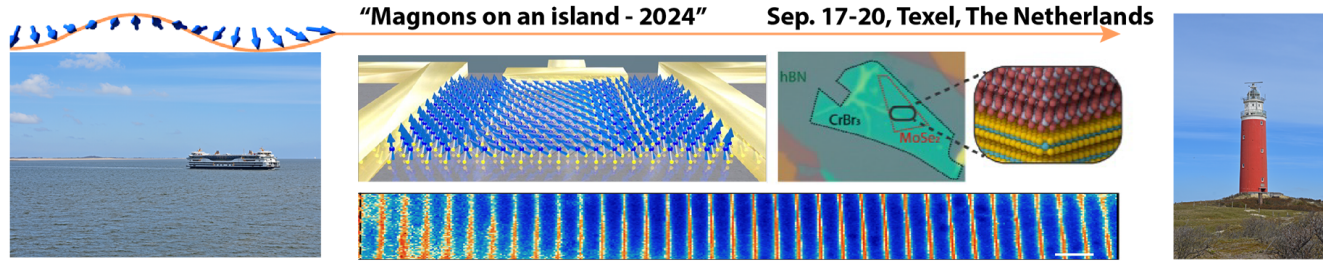


Magnons on an Island 2024 - Program Monday, Tuesday, Wednesday



Magnons on an Island 2024 - Program **Invited talks are 25+5 min. Contributed talks are 12+3 min.**

Time/Date	Monday 16/9	Tuesday 17/9	Wednesday 18/9
7:30		Breakfast	Breakfast
8:25		Opening - Toeno van der Sar	Session V. 8:30-10:00. Chair: Maletinsky
8:30		Session I. 8:30-10:00. Chair: van der Sar	Xiao-Xiao Zhang - (canceled)
9:00		Amir Yacoby - Signatures of magnon hydrodynamics in an atomically thin ferromagnet	Bart van Wees - Magnon spin transport in two-dimensional insulating magnetic systems
9:30		Poster pitches	Bert Koopmans - Light and spin waves at the beach
10:00		Poster pitches	Break
10:30		Break	Session VI. 10:30-12:15. Chair: Blanter
11:00		Session II. 10:30-12:15. Chair: Yacoby	Sander Otte - Tracing coherent dynamics of electron and nuclear spins using pump-probe spectroscopy
11:30		Semonti Bhattacharyya - Probing the interplay of magnetism and topology with electrical transport	Dahlia Klein - High-Resolution Potential Imaging using the Atomic SET
11:45		Pepa Martinez-Perez - Spin qubits and magnonic cavities	Tim Bauer - Scanning tunneling spectroscopy of magnetic quantum impurities in two-dimensional magnets
12:00		Hiroki Matsumoto - Magnon-phonon coupling of a synthetic antiferromagnet integrated into a surface acoustic wave resonator	Qili Li - Magnon-Phonon coupling in Fe ₃ GeTe ₂
12:15		Ali Asgharpour - Synthetic Altermagnets	Felipe Reyes-Osorio - Nonlocal damping and its effect on magnons from Schwinger-Keldysh quantum field theory
12:30		Carla Boix-Constant - Out-of-plane transport in the quantum spin liquid candidate 1T-TaS ₂ .	Lunch
13:00		Lunch	Lunch
13:30		Free time	Free time
14:00		Session III. 14:00-15:15. Chair: Bhattacharyya	
14:30	Bus 1: Boat to Krim Registration open*	Yaroslav Tserkovnyak - Quantum magnonics via color centers	
15:00		Christina Psaroudaki - Quantum Functionalities of Magnetic Skyrmions	
15:15		Valentina Errani - The Exceptional Story of Klein Paradox in Antiferromagnets	
15:45		Break	
16:15		Session IV. 15:45-16:45. Chair: Tserkovnyak	
16:30		Patrick Maletinsky - Quantum sensing of van der Waals magnets - towards spin-wave detection in atomic monolayers	
16:45	Bus 2: Boat to Krim	Julien Berthomier - Unravelling spin-wave propagation regimes using NV magnetometry	
17:00	Welcome drinks*, & bike pickup*	Pim Vree - Controlling the spin-wave dispersion in a superconductor-ferromagnet hybrid	
17:30		Break	
18:00		Drinks + posters available	
18:30	Free time	Bus 1&2 to dinner	
19:00		Conference dinner @ Paal 17	
19:30			
20:00			
20:30			
21:00			
21:30		Bus 1&2 to Krim	

* in Event Hall foyer

Magnons on an Island 2024 - Program Thursday, Friday

Time/Date	Thursday 19/9	Friday 20/9
7:30	Breakfast	Breakfast
8:25		
8:30	Session VII. 8:30-10:00. Chair: Otte	Session XI. 8:30-10:00. Chair: Rosner
9:00	Reinoud Lavrijsen - Spin transfer torque doppler shifted spin waves; towards analogue gravity on a chip	Andrii Chumak - Magnon transport in YIG/GGG at millikelvin temperatures for quantum magnonics
9:30	Sebastiaan van Dijken - Voltage and optical control of spin waves and magnonic convolutional neural networks	Michael E. Flatté - Magnon Enhanced Quantum Technologies
9:45	Jonah Weissman - Observation of Thermal Transport by Gate-Switchable Magnons in Bilayer Graphene	Olivier Klein - Orbital Angular Momentum of Azimuthal Spin-Waves
10:00	Pieter Gunnink - TBA	
10:00	Break	Break
10:30	Session VIII. 10:30-12:15. Chair: Lavrijsen	Session XII. 10:30-12:15. Chair: Andrii Chumak
11:00	Hide Kurebayashi - Spin dynamics and spin transport in van der Waals magnets	Dima Afanasiev - Light-driven antiferromagnetic magnonics
11:30	Samuel Mañas-Valero - A twist on 2D spintronics: orthogonally-twisted CrSBr	Akash Kamra - Quantum sensing of nonclassical magnonic ground states and superpositions
11:30	Muhammad Zohaib - Control of magnon transport in van der Waals CrPS4 antiferromagnet by external field and temperature	Anna-Luisa Römling - Resolving nonclassical magnon composition of a magnetic ground state via a qubit
11:45	Dag-Björn Hering - Continuous similarity transformation for interacting magnons in two dimensions	Sanchar Sharma - Quantum Skyrmionics in a cavity
12:00	Matthias Walther - Quantum melting of long-range ordered quantum antiferromagnets investigated by momentum-space continuous similarity transformations	
12:15	Lunch	Closing + Lunch
13:00	Free time	Free time
13:30		Bus 1&2 to boat
14:00	Session IX. 14:00-15:15. Chair: Kurebayashi	
14:30	Sol Jacobsen - Tuning and sensing with magnet-photon interactions in cavities	
14:30	Maz Ali - Superconducting and Josephson Diode Effects	
15:00	Artem Bondarenko - Electrically controlled 2D magnon optics	
15:15	Break	
15:45	Session X. 15:45-16:45. Chair: Jacobsen	
16:15	Malte Rosner - Magnetic Properties of Correlated Layered Magnets	
16:15	Andrey Rybakov - Relevance of higher harmonics of the spiral cone magnetic ground states	
16:30	Lukas Fischer - Self-propulsion of a magnetic domain wall by a resonant excitation with high-frequency magnetic fields.	
16:45	Short break	
17:00	Poster session	
17:30	Drinks available	
18:00		
18:30	Free time	
19:00		
19:30		
20:00		
20:30		
21:00		
21:30		