

520028 SE Magnetism and Superconductivity (2022W)

Andrii Chumak

Mo, 09:00 - 10:30 , Kurt-Gödel-Hörsaal, Boltzmannngasse 5, EG, 1090 Wien

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Meeting ID: 969 8799 9634

Passcode: 431693

Date	Speakers	Topic
07.03		
14.03		
21.03	Valeri Lozovski	Nanomedicine from Physical Point of View. Nonfunctionalized nanoparticles in antiviral therapy
28.03	Barbora Budinska	Rising speed limits for fluxons via edge quality improvement in MoSi thin films
04.04	Oleksandr Chumak David Zehner	Heusler alloys Neuromorphic computing
25.04	Hannah Jungreuthmayer	Magnetic liquids
02.05	Aram Sajdak	Ferromagnetic resonance
09.05	Lukas Danesi	Skyrmions
16.05	Verena Wutte	TMR sensor for position measurement
23.05		
30.05	Sebastian Zeilinger	Spin orbit torque enabled magnetic sensor with low offset and tunable sensitivity
13.06	LabTour (FMR, BLS, PPMS, 10 mK fridge)	
20.06	Khrystyna Levchenko	Beyond electronics: partially compensated garnets for magnonics computing

Proposed topics for presentations

Magnetism and Spintronics

- Industrial permanent magnets
- Modern electro-motors
- Magnetic liquids
- Spin-wave majority gates
- Neuromorphic or stochastic computing
- Parallel parametric pumping in magnonics
- Racetrack memory
- Skyrmions
- Bubble memory
- Dzyaloshinskii-Moriya Interaction
- Hard Disk Drives (HDDs)
- Spin Seebeck effect (SSE)
- Echo phenomenon
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