

SE Magnetism and Spintronics (2024S)



Andrii Chumak

Monday, 13:00-14:30 Kurt-Gödel-Hörsaal, Boltzmanngasse 5, EG, 1090 Wien

Date	Speakers	Topic
04.03.		Kick-Off
11.03.	A. Chumak	Mini-Training
18.03.		
08.04.		
15.04.	D. Muxel	MRAM
22.04.	J. Luther	
29.04.	M. Predel	Magnetic van der Waals structures
06.05.	break	
13.05.	D. Schramm	Spin-Seebeck-Effect
27.05.	break	
03.06.	break	
10.06.	P.Rehberger B. Valenta	HDD Inverse design magnonics
17.06.	Lab Tour	

Magnetism

- Spin waves in antiferromagnetic materials
- 3D magnonics
- Spin-wave RF application
- Magnon detection using NV cells
- Neuromorphic and Reservoir Computing
- Industrial permanent magnets
- Modern electro-motors
- Magnetic liquids
- Stochastic computing
- Reservoir computing
- Parallel parametric pumping in magnonics
- Bubble memory
- Dzyaloshinskii-Moriya Interaction
- Hard Disk Drives (HDDs)
- Spin Seebeck effect (SSE)
- Echo phenomenon
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