



# 18th Czech and Slovak Conference on Magnetism

## Tuesday, July 8, 2025

### Section S1: Theoretical challenges in magnetically ordered and disordered systems (11:00 AM - 12:45 PM)

-Conveners: Jan Ruzs

time	[id] title	presenter
11:00 AM	[180] Altermagnetism, Antialtermagnetism and Spin Symmetries	ŠMEJKAL, Libor
11:30 AM	[34] Differential Isotropic Model of Ferromagnetic Hysteresis: Temperature Dependence of Saturation Magnetization and Cluster Magnetic Moment	PYTLÍK, Jan
11:45 AM	[57] Thermal Phase Transitions of Spin- $\frac{1}{2}$ Ising-Heisenberg Model on the Extended Lieb Lattice in a Magnetic Field	STRECKA, Jozef
12:00 PM	[60] Electric-Field Driven Flat Band in Distorted Sawtooth Chain	OHANYAN, Vadim
12:15 PM	[62] The Role of Orbital Angular Momentum in Topologically Non-Trivial Altermagnetic Systems	SCHUSSER, Jakub
12:30 PM	[118] Generalized $S=1$ Planar Rotator Models With Arbitrary Number of Phase Transitions and Various Universality Classes	Prof. ŽUKOVIČ, Milan