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Hands-On Research in Complex Systems School | (smr 4230)

Monday 03 August 2026

notitle - Kastler Lecture Hall (AGH) (09:00-18:30)

time	title	presenter
09:00	Table-top Physics	MICHAEL FRANCIS SCHATZ
10:00	Hands-On	
	- Studying the Motor That Powers Bacterial Self-Propulsion	TEUTA PILIZOTA
	- Cotranscriptional Production of RNA Condensates Using Digital Microfluidics	JENNIFER MOLLOY FRANCESCO QUERO
	- Nonlinear Dynamics and Pattern Formation in Flow Between Concentric Rotating Cylinders	BRUCE RODENBORN ROBERT HARPER
	- Microfluidics for Stiffness Measurement of Soft Objects	DEBJANI PAUL TIKARAM ALMA
	- Optogenetic Field for SelfOrganized Gene Expression Patterns	FERNAN FEDERICI ALEJANDRO ARAVENA
	- From Numerical Integration to Physics-Informed Neural Networks	MARIA LIZ CRESPO MAYNOR BALLINA
	- Identifying Stable Configurations of 3D-Printed Floating Objects	EVELYN SANDERS
	- 2D Turbulence	MICHAEL FRANCIS SCHATZ MARC GUASCH
	- A Tabletop Experiment on Driving a Mechanical Oscillation	PIETRO CICUTA FRANCESCO VARNIER
	- Molecular Dynamics	MARK SHATTUCK
	- Computational Modeling	ERIC KOSTELICH RHONDA OLSON SCOT OLSON
13:00	Lunch	
14:00	Image Analysis	MARK DAVID SHATTUCK
15:00	Professional Development Workshop	