

Tuesday, September 12th, 2023				
Start	Duration	Stop	Event	Lead
7:30 AM	30	8:00 AM	check in and badging in SNS Lobby (same building as workshop)	
8:00 AM	30	8:30 AM	working breakfast: install software, introduce VSCode	Kipton Barros, David Dahlbom
9:00 AM	12	9:12 AM	Broad Introduction and Outline of the Workshop	Daniel Pajerowski
9:12 AM	3	9:15 AM	questions	Matt Stone
9:15 AM	20	9:35 AM	Experimental Results from Neutron Spectroscopy: Analyzed with Linear Spin-wave Theory	Rob McQueeney
9:35 AM	5	9:40 AM	questions	Matt Stone
9:40 AM	40	10:20 AM	Theoretical Underpinnings of Linear Spin-wave Theory	Randy Fishman
10:20 AM	5	10:25 AM	questions	Matt Stone
10:25 AM	45	11:10 AM	break (group photo)	Matt Stone
11:10 AM	60	12:10 PM	Julia language: Introduction and practical	William Godoy
12:10 PM	90	1:40 PM	working lunch: poster session I	Daniel Pajerowski
1:40 PM	30	2:10 PM	LSWT bells and whistles and practical	Daniel Pajerowski
2:10 PM	18	2:28 PM	Histogramming Time-of-flight Neutron Spectroscopy Data	Andrei Savici
2:28 PM	2	2:30 PM	questions	Andy Christianson
2:30 PM	20	2:50 PM	The Inelastic Neutron Spectrometer Resolution Function	Garrett Granroth
2:50 PM	5	2:55 PM	questions	Andy Christianson
2:55 PM	30	3:25 PM	Introduction to Sunny.jl	Kipton Barros
3:25 PM	15	3:40 PM	break	Andy Christianson
3:40 PM	45	4:25 PM	SU(2) single crystal, $k = 0,0,0$ practical	Daniel Pajerowski
4:25 PM	45	5:10 PM	Experiment Data + Sunny.jl + Resolution Effects	Sam Quinn
5:10 PM	30	5:40 PM	Practical: Learning the Hamiltonian from Experiment Data (2D Anti-ferromagnetic square lattice)	Sam Quinn

Wednesday, September 13th, 2023				
Start	Duration	Stop	Event	Lead
8:00 AM	30	8:30 AM	working breakfast: library for spin-Hamiltonians	Ovi Garlea
8:30 AM	5	8:35 AM	Recap of Day 1	Daniel Pajerowski
8:35 AM	20	8:55 AM	Experimental Results from Neutron Spectroscopy: SU(N)	Xiaojian Bai
8:55 AM	5	9:00 AM	questions	Matt Stone
9:00 AM	20	9:20 AM	Experimental Results from Neutron Spectroscopy: Finite Temperatures	Stanislav Nikitin
9:20 AM	5	9:25 AM	questions	Matt Stone
9:25 AM	40	10:05 AM	Theoretical Underpinnings of SU(N), Classical Limits, and Corrections	Cristian Batista
10:05 AM	5	10:10 AM	questions	Matt Stone
10:10 AM	45	10:55 AM	break	Matt Stone
10:55 AM	23	11:18 AM	SU(N) Linear Spin-wave Theory	Hao Zhang
11:18 AM	2	11:20 AM	questions	Andy Christianson
11:20 AM	23	11:43 AM	Renormalized Classical Theory of Quantum Magnets	David Dahlbom
11:43 AM	2	11:45 AM	questions	Andy Christianson
11:45 AM	30	12:15 PM	Overview of Basic Monte Carlo Methods	Ying Wai Li + Matt Wilson
12:15 PM	5	12:20 PM	questions	Andy Christianson
12:20 PM	90	1:50 PM	working lunch: poster session II	Daniel Pajerowski
1:50 PM	20	2:10 PM	Overview of Advanced Monte Carlo Methods	Matt Wilson + Ying Wai Li
2:10 PM	45	2:55 PM	Monte Carlo practical	Matt Wilson + Ying Wai Li
2:55 PM	45	3:40 PM	Classical Dynamics at Finite Temperatures practical	David Dahlbom
3:40 PM	15	3:55 PM	break	Andy Christianson
3:55 PM	45	4:40 PM	SU(N) Linear Spin-Wave Theory Practical	David Dahlbom
4:40 PM	60	5:40 PM	Sunny Sandbox (attendees working their own problems)	David Dahlbom

Thursday, September 14th, 2023				
Start	Duration	Stop	Event	Lead
8:00 AM	30	8:30 AM	working breakfast: second target station	Gabriele Sala
8:30 AM	5	8:35 AM	recap of day 1 and day 2	Daniel Pajerowski
8:35 AM	12	8:47 AM	Neutron spectrometers at ORNL	Matthew Stone
8:47 AM	3	8:50 AM	questions	Andy Christianson
8:50 AM	30	9:20 AM	A Tool for Resolution Function Calculations at ORNL	Garrett Granroth
9:20 AM	5	9:25 AM	questions	Andy Christianson
9:25 AM	25	9:50 AM	Entangled Units in Sunny	David Dahlbom
9:50 AM	5	9:55 AM	questions	Andy Christianson
9:55 AM	45	10:40 AM	break	Andy Christianson
10:40 AM	30	11:10 AM	Linear spin wave theory of large magnetic unit cells using the Kernel Polynomial Method	Harry Lane
11:10 AM	5	11:15 AM	questions	Matt Stone
11:15 AM	40	11:55 AM	Magnetic Properties from Density Functional Theory and First Principles	Liqin Ke
11:55 AM	5	12:00 PM	questions	Matt Stone
12:00 PM	30	12:30 PM	SERENDIPITY: Constraining Hamiltonians from Magnetic Structures	Andrew Wills
12:30 PM	5	12:35 PM	questions	Matt Stone
12:35 PM	60	1:05 PM	working lunch: closing remarks, feature requests, feedback	Daniel Pajerowski
1:05 PM	30	1:35 PM	Sunny Sandbox (attendees working their own problems)	Daniel Pajerowski