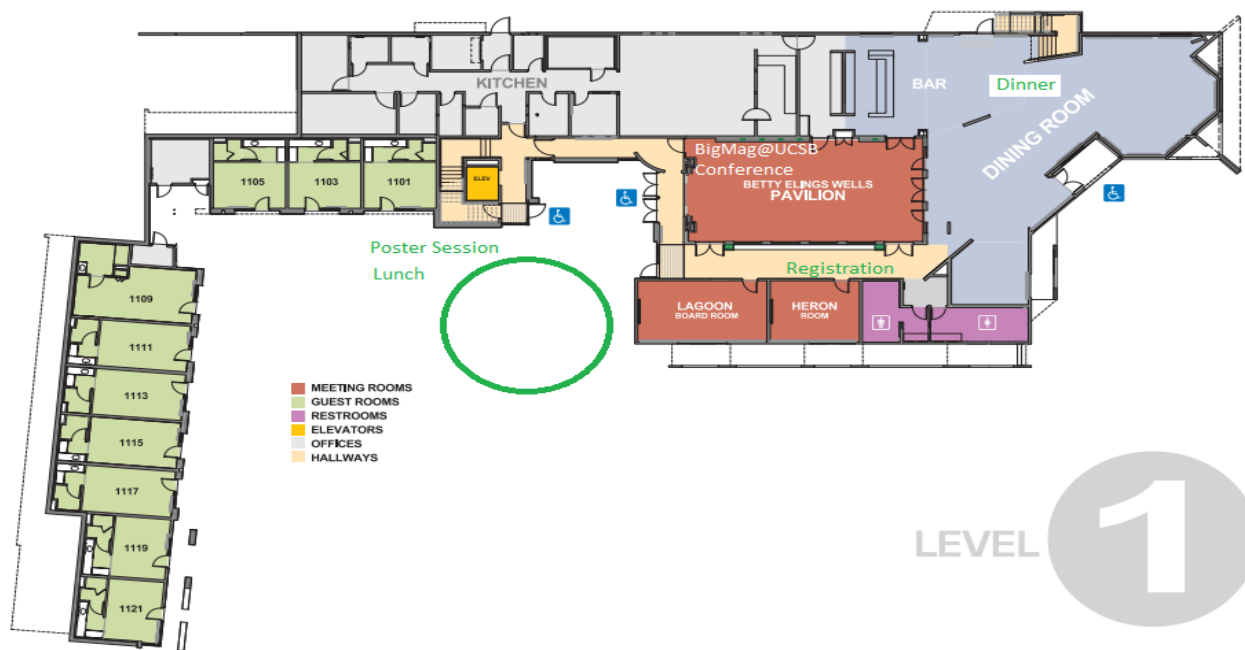


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Thursday, May 17		
Activity/Time	Activity/Speaker	Topics
9:00-11:30	Tour of FEL, magnetic resonance facilities	
11:00-1:30	Registration	
	Lunch (not provided by workshop)	
1:30-3:15	Session I: Technology for MRX, Chair: Songi Han	
1:30-1:35	Pierre Wiltzius, Dean of Mathematical, Physical and Life Sciences	Welcome
1:35-2:15	Mark Sherwin (UCSB)	A Magnetic Resonance eXploration (MRX) facility- vision and capabilities
2:15-2:45	Huub Weijers (NHMFL)	Superconducting magnets above 30T
2:45-3:15	Peter Christianen (Max Planck Institute)	The FELIX-HMFL facility--capabilities and science
3:15-3:45	Coffee Break	
3:45-5:45	Session II: Science Drivers for DNP, NMR and EPR with MRX, Chair: Arnab Mukherjee	
3:45-4:30	Tim Cross (NHMFL Florida State University)	NMR above 30 T Opportunities for pulsed DNP above 20 T in biology and chemistry
4:30-5:00	Robert G. Griffin (MIT)	
5:00-5:30	Stephen Hill (NHMFL Florida State University)	NHMFL vision for electron magnetic resonance Opportunities for high-field NMR above 20 T in materials studies
5:30-6:00	Brad Chmelka (UCSB)	
6:15-7:45	Dinner	
7:45-8:15	Interviews with Speakers	
8:15-9:30	Panel Discussion led by Len Mueller (UCR) and Mark Sherwin (UCSB)	Panel discussion about technology for magnetic resonance above 20 T
Friday, May 18		
9:00-10:30	Session III: Biology and Chemistry, Chair: Rick Dahlquist	
	Yoh Matsuki (Osaka University)	460 GHz-700 MHz DNP using Closed-Cycle Helium MAS and Dual Gyrotron System toward Biological
	Marina Bennati (Max Planck Institute)	Opportunities for very high field EPR and DNP in chemistry and biology
	David Britt (UC Davis)	Electron-nuclear double resonance--opportunities in biochemistry above 20T
10:30-11:00	Coffee Break	
11:00-12:00	Panel Discussion led by Songi Han (UCSB)	Panel Discussion about biology and chemistry
12:00-1:30	Lunch	
1:30-3:00	Session IV: Condensed Matter Physics and Materials, Chair: Ram Seshadri	
	Marek Pruski (Iowa State University)	Emerging methods for high-field solid-state NMR of materials
	Raphaële Clément (UCSB)	NMR, EPR and DNP in electrochemical devices Opportunities for electrically-detected magnetic resonance above 20T
	Christoph Boehme (University of Utah)	
3:00-3:30	Coffee Break	
3:30-4:30	Session V: Quantum and 2D Materials, Chair: Stephen Wilson	
	Stuart Brown (UCLA)	NMR in Quantum Materials, from low to high magnetic fields
	Andrea Young (UCSB)	Emergent phases in 2D materials at very high magnetic fields
4:30-6:00	Poster Session (brief presentations before session, then session), Chair: Susumu Takashi	
6:00-7:30	Dinner	
7:30-8:00	Interviews with speakers	
8:00-9:00	Panel Discussion led by Susumu Takahashi (USC) and Ram Seshadri (UCSB)	Panel discussion about materials and condensed matter physics at MRX
Saturday, May 19		
9:00-10:30	Session VI: Quantum Materials and Exotic Magnetic Orders, Chair: Leon Balents	
	Hitoshi Ohta (Kobe University)	Exotic magnetic orders at very high magnetic fields
	Oleg Starykh (University of Utah)	Spinon magnetic resonance
	Peter Armitage (Johns Hopkins University)	THz spectroscopy of strongly-correlated materials in high magnetic fields
10:30-11:00	Coffee Break/Interviews with Speakers	
11:00-12:00	Final panel discussions - Correlated spin physics led by Leon Balents (UCSB) and Andrea Young (UCSB)	
12:00-12:30	Rapporteur Summary and Highlights	
12:30	Conference Close	



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