



Institute for Complex
Adaptive Matter

ICAM Week of Science (8/31/2026 to 9/4/2026)

Monday August 31, 2026 –

Location: Walter B Buehler Alumni Center, Alpha Gamma room

08:15 Registration

08:55 **Welcome and Introduction by Rajiv Singh**

Morning Session chaired by Cristina Marchetti

09:00 **Herbie Levine**, *Northeastern* (60 min)
Plasticity governs tumor progression

10:00 **Sujit Datta**, *Caltech* (60 min)
Life in a Tight Spot: Spying on Microbes in Complex Spaces

11:00 **Coffee Break** (40 min)

11:40 **Round Table Discussion–**
Steve White, *UC Irvine* and **Daniel Cox**, *UC Davis* (60 min)
Impact of AI on Condensed Matter Research

12:40 **Lunch** (80 min)

Afternoon Session chaired by Piers Coleman

14:00 **Mark Bowick**, *UC Santa Barbara* (60 min)
Topological Rigidity and non-Abelian Line Defects

15:00 **Coffee Break** (40 min)

15:40 **Hernan Garcia**, *Berkeley* (40 min)
Using Physics as a Microscope to Dissect Transcriptional Dynamics in Development

Evening Session chaired by Khandkar Quader

16:20 **Evelyn Tang**, *Rice* (40 min)
Topology protects robust function in living and soft matter

17:00 **Daniel Sussman**, *Emory* (40 min)
Bending Space and Delaying Time: Breaking symmetries in active matter

17:40 **End of day 1**



Tuesday September 1, 2026

Location: Walter B Buehler Alumni Center, Alpha Gamma room

09:00 **ICAM SSC Meeting** (60 min)

10:00 Coffee Break (20 min)

10:20 **ICAM SSC Meeting** (60 min)

Session chaired by Rajiv Singh

12:00 **Liang Fu, MIT** (60 min)

First-principles AI for quantum matter 13:00 Lunch (80 min)

13:00 Lunch (60 min)

14:00 Excursion – Berryessa Gap Vineyards Easter Winery Tour, Winters, CA (Shuttle pick up at Alumni Center)

18:30 Conference Dinner – Walter A. Buehler A. Buehler Alumni Center

20:30 End of day 2



Wednesday September 2, 2026

Location: Teaching and Learning Complex (TLC), Rm 2010

Morning Session chaired by Nick Curro

- 09:00 **Silke Paschen**, *TU Wien* (60 min)
New Probes of Strange Metals
- 10:00 **Alan Tennant**, *University of Tennessee, Knoxville* (60 min)
Inference in quantum condensed matter
- 11:00 **Coffee Break** (40 min)
- 11:40 **Hung-Cheng Wu**, *National Sun Yat-sen University, Taiwan* (40 min)
Magnetic Structure Determination and Its Applications: Exploring Piezomagnetic and Magnetoelectric Effects
- 12:20 **Tessa Cookmeyer**, *UC Davis* (40 min)
Triangular lattice magnets: hidden order and dimer criticality
- 13:00 **Lunch** (60min)

Afternoon Session chaired by Marina Radulaski

- 14:00 **Chunhui Du**, *Georgia Tech* (40 min)
Quantum Sensing of Quantum Materials
- 14:40 **Thomas Theis**, *UC Davis* (40 min)
Nuclear Spin Quantum Sensing in Chemistry, Biology and Medicine
- 15:40 **Poster Session Reception: Location Physics Rm 185**
- 16:40 **Poster Session - Location: Physics Rm 185**
- 18:00 **End of day 3**



Thursday September 3, 2026

Location: Teaching and Learning Complex (TLC), Rm 2010

Morning Session chaired by Filip Ronning

- 09:00 **Peter Armitage**, John Hopkins (40 min)
Many-body quantum geometric effects and entanglement at the 3D metal-insulator quantum phase transition
- 09:40 **Inna Vishik**, UC Davis (40 min)
Cuprate superconductivity beyond the dome
- 10:20 **Joe Orenstein**, UC Berkeley/ LBL (40 min)
KTB superfluid density jump observed by magnon propagation in an antiferromagnet/BSCCO heterostructure
- 11:00 Coffee Break (40 min)
- 11:40 **Round Table Discussion** (60 min)
- 12:40 Lunch (80 min)

Afternoon Session chaired by Valentin Tanfour

- 14:00 **Tanusri Saha Dasgupta** S. N. Bose Centre, Kolkata (40 min) *Interplay of SOC and Coulomb Interaction – Route to Unconventional Magnetism*
- 14:40 **Ricardo Urbano**, Universidade Estadual de Campinas (40 min) *Mapping Correlated Electron Phenomena in Heavy Fermions: A Solid State NMR Perspective*
- 15:20 Coffee Break (40 min) –
- 16:00 **Aharon Kapiltunik**, Stanford (40 min)
Gyrotropic Effects in Magic-Angle Twisted Bilayer Graphene
- 16:40 **Shuqiu Wang**, University of Bristol (40 min)
Visualizing the Odd-Parity Superconducting Order Parameter and Its Quasiparticle Surface Band in UTe₂
- 17:20 End of day 4



Friday September 4, 2026

Location: Teaching and Learning Complex (TLC), Rm 2010

Session chaired by Silke Paschen

- 09:00 **Joe Meese**, *UIUC* (40 min)
When the Lattice Strikes Back: The Impact of Incompatible Strain on Correlated Electronic Phenomena
- 09:40 **Shreenanda Ghosh**, *University of Cologne* (40 min)
Exploring Layered Magnets via Raman Spectroscopy: From Weyl Semimetals to Multiferroics
- 10:20 **Eduardo da Silva Neto**, *Yale* (40 min)
Observing two-electron interactions with correlation-ARPES
- 11:00 **Coffee Break (40 min)**
- 11:40 **Vidya Madhavan**, *UIUC* (40 min)
UTe₂ Evidence for Topological Superconductivity in
- 12:20 **Monica Allen**, *UC San Diego* (40 min)
Microwave imaging of layered quantum materials
- 13:00 **Adjourn**

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Start	End	Monday Aug 31	Tuesday Sept 1	Wednesday Sept 2	Thursday Sept 3	Friday September 4	
8:15	8:55	Registration				"When the Lattice Strikes Back: The Impact of Incompatible Strain on Correlated Electronic Phenomena" Joe Meese	
8:55	9:00	Welcome and Introduction Rajiv Singh					
9:00	9:20	"Plasticity Governs Tumor Progression" Herbie Levine					
9:20	9:40						
9:40	10:00		"Cuprate Superconductivity Beyond the Dome" Inna Vishik	"Exploring Layered Magnets via Raman Spectroscopy: From WeylSemimetals to Multiferroics" Shreenanda Ghosh			
10:00	10:20	Coffee Break					
10:20	10:40	"Life in a Tight Spot: Spying on Microbes in Complex Spaces" Sujit Datta			Plenary 6 - "Inference in quantum condensed matter" Alan Tennant	"KTB Superfluid Density Jump Observed by Magnon Propagation in an An-tiferromagnet/BSCCO Heterostructure" Joe Orenstein	"Observing Two-Electron Interactions with Correlation-ARPES" Eduardo da Silva Neto
10:40	11:00						
11:00	11:20	Coffee Break		Coffee Break	Coffee Break	Coffee Break	
11:20	11:40						
11:40	12:00	Round Table (60 Min) - "Impact of AI on Condensed Matter Research" Steven White and Daniel Cox	Coffee Break	"Magnetci Structure Determination and Its Applications: Exploring Piezomagnetic and Magnetoelectric Effects" Hung-Cheng Wu	Round Table 2	"Evidence for Topological Superconductivity in UTe2" Vidya Madhavan	
12:00	12:20		"First-principles AI for quantum matter" Liang Fu				
12:20	12:40						
		Lunch		"Triangular Lattice Magnets: Hidden Order and Dimer Criticality " Tessa Cookmeyer	Lunch	"Microwave Imaging of Layered Quantum Materials" Monica Allen	
12:40	13:00						
13:00	13:20						
13:20	13:40						
13:40	14:00		Lunch			Adjourn	
14:00	14:20	"Topological Rigidity and non-Abelian Line Defects" Mark Bowick	Excursion - Berryessa Gap Vinyard, Winters, CA Shuttle pick up in front of Alumni Center	"Quantum Sensing of Quantum Materials" Chunhui Du	"Interplay of SOC and Coulomb Interaction – Route to Unconventional Magnetism" Tanusri Saha Dasgupta		
14:20	14:40						
14:40	15:00				"Nuclear Spin Quantum Sensing in Chemistry, Biology and Medicine" Thomas Theis		"Mapping Correeselectrom Phenomena in Heavy Fermions: A Solid State NMR Perspective" Ricardo Urbano
15:00	15:20	Coffee Break					
15:20	15:40				"Gyrotropic Effects in Magic-Angle Twisted Bilayer Graphene" Aharon Kapitulnik		
15:40	16:00	"Using Physics as a Microscope to Dissect Transcriptional Dynamics in Development"" Hernan Garcia"			Poster Session Reception @Physics Rm 185		Coffee Break
16:00	16:20						
16:20	16:40	"Topology Protects Robust Function in Living and Soft Matter" Evelyn Tang					
16:40	17:00				Poster Session @Physics Room 185		"Visualizing the Odd-Parity Superconducting Order Parameter and Its Quasiparticle Surface Band in UTe2" Shuqiu Wang
		"Bending Space and Delaying Time: Breaking Symmetries in Active Matter" Daniel Sussman					
17:00	17:20						
17:20	17:40						
17:40	18:00						
18:00	18:20			Conference Dinner (6:30pm - 8:30pm) Walter B. Buehler Alumni Center, Alpha Gamma Room			
18:20	18:40						
18:40	19:00						
19:00	19:20						
19:20	19:40						