

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

Monday August 31, 2026 –

Location: Walter B Buehler Alumni Center, Alpha Gamma room

Welcome and Introduction by Rajiv Singh

08:45 **Dean Estella Atekwana**, *UC Davis College of L & S* (15 min)

Welcome Address

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 **Hernan Garcia**, *Berkeley* (40 min)

Using Physics as a Microscope to Dissect Transcriptional Dynamics in Development

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

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

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) *TBD*
- 11:00 **Coffee Break** (40 min)
- 11:40 **Hung-Cheng Wu**, *National Sun Yat-sen University, Taiwan* (40 min)
TBD
- 12:20 **Tessa Cookmeyer**, *UC Davis* (40 min)
Triangular lattice magnets: hidden order and dimer criticality
- 13:00 **Lunch** (60 min)

Afternoon Session chaired by Marina Radulaski

- 14:00 **Jorg Wrachtrup**, *Stuttgart University and Max Planck Institute* (40 min)
Quantum Sensors for Quantum Matter
- 14:40 **Chunhui Du**, *Georgia Tech* (40 min)
Quantum Sensing of Quantum Materials
- 15:20 **Thomas Theis**, *UC Davis* (40 min)
Nuclear Spin Quantum Sensing in Chemistry, Biology and Medicine
- 16:00 **Coffee Break** (40 min)
- 16:40 **Poster Session - Location: Physics Rm 185**
- 17:40 **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* (40 min)
KTB superfluid density jump observed by magnon propagation in an an-tiferromagnet/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 UTe_2
- 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 **Monica Allen**, UC San Diego (40 min)

Microwave imaging of layered quantum materials

12:20 **Vidya Madhavan**, UIUC (40 min)

Evidence for Topological Superconductivity in UTe_2

13:00 **Adjourn**

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

Start	End	Monday Aug 31	Tuesday Sept 1	Wednesday Sept 2	Thursday Sept 3	Friday September 4					
8:30	9:00	Opening									
9:00	9:20	"Plasticity Governs Tumor Progression" Herbie Levine	ICAM SSC Meeting	"New Probes of Strange Metals" Silke Paschen	"Many-body Quantum Geometric Effects and Entanglement at the 3D Metal-Insulator Quantum Phase Transition" Peter Armitage	"When the Lattice Strikes Back: The Impact of Incompatible Strain on Correlated Electronic Phenomena" Joe Meese					
9:20	9:40				"Cuprate Superconductivity Beyond the Dome" Inna Vishik	"Exploring Layered Magnets via Raman Spectroscopy: From Weyl Semimetals to Multiferroics" Shreenanda Ghosh					
9:40	10:00										
10:00	10:20	"Life in a Tight Spot: Spying on Microbes in Complex Spaces" Sujit Datta	Coffee Break	Plenary 6 - Allan 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					
10:20	10:40		ICAM SSC Meeting								
10:40	11:00				Coffee Break	Coffee Break	Coffee Break	Coffee Break			
11:00	11:20	Coffee Break	Coffee Break	"Magnetci Structure Determination and Its Applications: Exploring Piezomagnetic and Magnetoelectric Effects" Hung-Cheng Wu	Round Table 2	"Microwave Imaging of Layered Quantum Materials" Monica Allen					
11:20	11:40	Round Table (60 Min) - "Impact of AI on Condensed Matter Research" Steven White and Daniel Cox					"First-principles AI for quantum matter" Liang Fu	"Triangular Lattice Magnets: Hidden Order and Dimer Criticality" Tessa Cookmeyer	Lunch	"Evidence for Topological Superconductivity in UTe2" Vidya Madhavan	
11:40	12:00										Lunch
12:00	12:20	Excursion - Berryessa Gap Vinyard, Winters, CA Shuttle pick up in front of Alumni Center	"Quantum Sensing of Quantum Materials" Chunhui Du	"Mapping Correelectrom Phenomena in Heavy Fermions: A Solid State NMR Perspective" Ricardo Urbano							
12:20	12:40				"Topological Rigidity and non-Abelian Line Defects" Mark Bowick	"Nuclear Spin Quantum Sensing in Chemistry, Biology and Medicine" Thomas Theis	"Gyrotropic Effects in Magic-Angle Twisted Bilayer Graphene" Aharon Kapitulnik				
12:40	13:00							"Using Physics as a Microscope to Dissect Transcriptional Dynamics in Development" Hernan Garcia	Coffee Break	Coffee Break	
13:00	13:20										Coffee Break
13:20	13:40	Coffee Break	Coffee Break								
13:40	14:00			Coffee Break	Coffee Break						
14:00	14:20					Coffee Break	Coffee Break				
14:20	14:40							Coffee Break	Coffee Break		
14:40	15:00	Coffee Break	Coffee Break								
15:00	15:20			Coffee Break	Coffee Break						
15:20	15:40					Coffee Break	Coffee Break				
15:40	16:00							Coffee Break	Coffee Break		
16:00	16:20	Coffee Break	Coffee Break								
16:20	16:40			Coffee Break	Coffee Break						
16:40	17:00					Coffee Break	Coffee Break				
17:00	17:20							Coffee Break	Coffee Break		
17:20	17:40	Coffee Break	Coffee Break								
17:40	18:00			Coffee Break	Coffee Break						
18:00	18:20					Coffee Break	Coffee Break				
18:20	18:40							Coffee Break	Coffee Break		
18:40	19:00	Coffee Break	Coffee Break								
19:00	19:20			Coffee Break	Coffee Break						
19:20	19:40					Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								
				Coffee Break	Coffee Break						
						Coffee Break	Coffee Break				
								Coffee Break	Coffee Break		
		Coffee Break	Coffee Break								