

2017 Boulder Summer School
Frustrated and Disordered Systems
July 3 – July 28, 2017

Detailed schedule

All lectures are in **Duane Physics Room G130**
The public lecture is in **Duane Physics Room G1B30**

Sunday, July 2nd

6:30pm – 8:30pm Registration mixer with refreshments
WeatherTech Café in the C4C

Week 1, July 3 – 7

Monday, July 3rd

8:30 – 9:00	Leo Radzihovsky <i>Welcome and School Introduction</i>
9:00 – 10:30	G. Tarjus <i>An Overview of the Glass Transition I</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	C. Moore <i>Introduction to Computational Complexity; Belief Propagation and Its Applications I</i>
12:30 – 13:45	Lunch
14:00 – 15:30	G. Biroli <i>Mean-field Theory of Glasses I</i>
15:30 – 16:30	Participant Introductions

Tuesday, July 4th

10:00 – 11:00	Festive Brunch
11:00 – 12:30	C. Moore <i>Introduction to Computational Complexity; Belief Propagation and Its Applications II</i>
12:30 – 14:00	G. Biroli <i>Mean-field Theory of Glasses II</i>
Evening	Independence Day Celebration

Wednesday, July 5th

9:00 – 10:30

G. Tarjus

An Overview of the Glass Transition II

10:30 – 11:00

Coffee Break

11:00 – 12:30

C. Moore

Intro to Computational Complexity; Belief Propagation and Its Applications III

12:30 – 13:45

Lunch

14:00 – 15:30

G. Biroli

Mean-field Theory of Glasses III

15:30 – 15:45

Coffee Break

15:45 – 17:15

G. Tarjus

An Overview of the Glass Transition III

Thursday, July 6th

9:00 – 10:30

H. Cohn

The Mathematical Packing Problem I

10:30 – 11:00

Coffee Break

11:00 – 12:30

C. Moore

Intro to Computational Complexity; Belief Propagation and Its Applications IV

12:30 – 13:45

Lunch

14:00 – 15:30

G. Biroli

Mean-field Theory of Glasses IV

18:30 – 18:55

Poster Talks I

G130

19:00 – 22:00

Poster Session I

11th Floor Commons Room

Friday, July 7th

9:00 – 10:30

H. Cohn

The Mathematical Packing Problem II

10:30 – 11:00

Coffee Break

11:00 – 12:30

L. Berthier

Numerical Simulations I

12:30 – 13:45

Lunch

14:30 – 16:00

G. Semerjian

Cavity Method and Diluted Models I

19:00 – 21:30

Catered dinner (11th floor, Gamow Tower, Duane Physics)

Week 2, July 10 – 14

Monday, July 10th

9:00 – 10:30	G. Semerjian <i>Cavity Method and Diluted Models II</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	L. Berthier <i>Numerical Simulations II</i>
12:30 – 13:45	Lunch
14:00 – 15:30	F. Krzakala <i>Compressed Sensing, Neural Networks, Machine Learning</i> /
19:00 – 20:00	L. Manning <i>Public Lecture: A body made of flexible glass</i> , Duane Physics G1B30

Tuesday, July 11th

9:00 – 10:30	F. Krzakala <i>Compressed Sensing, Neural Networks, Machine Learning</i> //
10:30 – 11:00	Coffee Break
11:00 – 12:30	L. Berthier <i>Numerical Simulations III</i>
12:30 – 13:45	Lunch
14:00 – 15:30	L. Manning <i>Glassy Tissue Biology</i>
18:00 – 20:00	Dessert on Flagstaff Mountain <i>Busses leave south of C4C at 6pm</i>

Wednesday, July 12th

9:00 – 10:30	G. Semerjian <i>Cavity Method and Diluted Models III</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	M. Ediger <i>Atomic and Molecular Glasses I</i>
12:30 – 13:45	Lunch
14:00 – 15:30	L. Cugliandolo <i>Dynamics of Disordered Systems I</i>

Thursday, July 13th

9:00 – 10:30

F. Krzakala

Compressed Sensing, Neural Networks, Machine Learning

III

10:30 – 11:00

Coffee Break

11:00 – 12:30

M. Ediger

Atomic and Molecular Glasses II

12:30 – 13:45

Lunch

14:00 – 15:30

L. Cugliandolo

Dynamics of Disordered Systems II

18:30 – 18:55

Poster Talks II

G130

19:00 – 22:00

Poster Session II

11th Floor Commons Room

Friday, July 14th

9:00 – 10:30

F. Krzakala

Compressed Sensing, Neural Networks, Machine Learning

IV

10:30 – 11:00

Coffee Break

11:00 – 12:30

M. Ediger

Atomic and Molecular Glasses III

12:30 – 13:45

Lunch

14:00 – 15:30

L. Cugliandolo

Dynamics of Disordered Systems III

Week 3, July 17 – 21

Monday, July 17th

9:00 – 10:30

D. Reichman

Mode-Coupling Theory of Glasses I

10:30 – 11:00

Coffee Break

11:00 – 12:30

S. Glotzer

Numerical Simulations and Shape Assembly I

12:30 – 13:45

Lunch

14:00 – 15:30

A. Liu

A Real-Space View of Jamming I

Tuesday, July 18th

9:00 – 10:30

D. Reichman

Mode-Coupling Theory of Glasses II

10:30 – 11:00

Coffee Break

11:00 – 12:30

S. Glotzer

Numerical Simulations and Shape Assembly II

12:30 – 13:45

Lunch

14:00 – 15:30

A. Liu

A Real-Space View of Jamming II

Wednesday, July 19th

9:00 – 10:30

D. Reichman

Mode-Coupling Theory of Glasses III

10:30 – 11:00

Coffee Break

11:00 – 12:30

S. Glotzer

Numerical Simulations and Shape Assembly III

12:30 – 13:45

Lunch

14:00 – 15:30

F. Ricci-Tersenghi

Advanced Cavity Applications I

Thursday, July 20th

9:00 – 10:30

A. Liu

A Real-Space View of Jamming III

10:30 – 11:00

Coffee Break

11:00 – 12:30

S. Nagel

Experiments in Marginality I

12:30 – 13:45

Lunch

14:00 – 15:30

F. Ricci-Tersenghi

Advanced Cavity Applications II

18:30 – 18:55

Poster Talks III

G130

19:00 – 22:00

Poster Session III

11th Floor Commons Room

Friday, July 21st

9:00 – 10:30

K. Daniels

Experimental Jamming I

10:30 – 11:00

Coffee Break

11:00 – 12:30

S. Nagel

Experiments in Marginality II

12:30 – 13:45

Lunch

14:00 – 15:30

F. Ricci-Tersenghi

Advanced Cavity Applications III

19:00 – 21:30

Catered dinner (11th floor, Gamow Tower, Duane Physics)

Week 4, July 24 - July 28

Monday, July 24th

9:00 – 10:30	K. Daniels <i>Experimental Jamming II</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	P. Le Doussal <i>Advanced Disordered Topics I</i>
12:30 – 13:45	Lunch
14:00 – 15:30	B. Chakraborty <i>Low-Dimensional Jamming I</i>
19:00 – 21:30	K. Daniels <i>APS Communication and Negotiation Skills Seminar for Women (Optional)</i>

Tuesday, July 25th

9:00 – 10:30	P. Le Doussal <i>Advanced Disordered Topics II</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	S. Sanguli <i>Neuroscience I</i>
12:30 – 13:45	Lunch
14:00 – 15:30	B. Chakraborty <i>Low-Dimensional Jamming I</i>

Wednesday, July 26th

9:00 – 10:30	G. Ben Arous <i>Random Matrices, Extreme Events I</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	S. Sanguli <i>Neuroscience II</i>
12:30 – 13:45	Lunch
14:00 – 15:30	D. Weitz <i>Experimental Colloids I</i>

Thursday, July 27th

9:00 – 10:30	G. Ben Arous <i>Random Matrices, Extreme Events II</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	S. Sanguli <i>Neuroscience III</i>

12:30 – 13:45

Lunch

14:00 – 15:30

D. Weitz

Experimental Colloids II

Friday, July 28th

9:00 – 10:30

G. Ben Arous

Random Matrices, Extreme Events III

10:30 – 11:00

Coffee Break

11:00 – 12:30

Summary of the School

12:30 – 13:45

Lunch