

2017 Boulder School for Condensed Matter and Materials Physics
Frustrated and Disordered Systems July 3 – July 28, 2017
Detailed Schedule All lectures are in Duane Physics Room G130

Week 1, July 3 – 7

Sunday, July 2nd

6:30pm – 8:30

Registration mixer with refreshments

WeatherTech Café in the C4C

Beer and Wine Will Be Served

Monday, July 3rd

8:30 – 9:00

Leo Radzihovsky

Welcome and School Introduction

9:00 – 10:30

G. Tarjus

An Overview of the Glass Transition I

10:30 – 11:00

Coffee Break

11:00 – 12:30

C. Moore

Introduction to Computational Complexity; Belief Propagation and Its Applications I

12:30 – 13:45

Lunch

14:00 – 15:30

G. Biroli

Mean-field Theory of Glasses I

15:30 – 16:30

Participant Introductions

Tuesday, July 4th

10:00 – 11:00

Festive Brunch

11:00 – 12:30

C. Moore

Introduction to Computational Complexity; Belief Propagation and Its Applications II

12:30 – 14:00

G. Biroli

Mean-field Theory of Glasses II

Evening

Independence Day Celebration

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Wednesday, July 5th

9:00 – 10:30	G. Tarjus <i>An Overview of the Glass Transition II</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	C. Moore <i>Intro to Computational Complexity; Belief Propagation and Its Applications III</i>
12:30 – 13:45	Lunch
14:00 – 15:30	G. Biroli <i>Mean-field Theory of Glasses III</i>
15:30 – 15:45	Coffee Break
15:45 – 17:15	G. Tarjus <i>An Overview of the Glass Transition III</i>

Thursday, July 6th

9:00 – 10:30	H. Cohn <i>The Mathematical Packing Problem I</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	C. Moore <i>Intro to Computational Complexity; Belief Propagation and Its Applications IV</i>
12:30 – 13:45	Lunch
14:00 – 15:30	G. Biroli <i>Mean-field Theory of Glasses IV</i>
18:30 – 18:55	Poster Talks I <i>Duane G130</i>
19:00 – 22:00	Poster Session I <i>11th Floor Commons Room</i>

Friday, July 7th

9:00 – 10:30	H. Cohn <i>The Mathematical Packing Problem II</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	L. Berthier <i>Numerical Simulations I</i>
12:30 – 13:45	Lunch
14:00 – 15:30	G. Semerjian <i>Cavity Method and Diluted Models I</i>
19:00 – 21:30	Catered dinner <i>11th Floor Commons Room</i>

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</i>
19:00 – 20:00	Public Lecture: Lisa Manning <i>A body made of flexible glass, Duane Physics G1B30</i>

Tuesday, July 11th

9:00 – 10:30	F. Krzakala <i>Compressed Sensing, Neural Networks, Machine Learning II</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

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Dynamics of Disordered Systems 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

Duane 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	L. Cugliandolo <i>Dynamics of Disordered Systems IV</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	D. Reichman <i>Mode-Coupling Theory of Glasses I</i>
12:30 – 13:45	Lunch
14:00 – 15:30	A. Liu <i>A Real-Space View of Jamming I</i>

Tuesday, July 18th

9:00 – 10:30	D. Reichman <i>Mode-Coupling Theory of Glasses II</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	F. Zamponi <i>Tutorial: Relating Spins and Particles I</i>
12:30 – 13:45	Lunch
14:00 – 15:30	A. Liu <i>A Real-Space View of Jamming II</i>

Wednesday, July 19th

9:00 – 10:30	D. Reichman <i>Mode-Coupling Theory of Glasses III</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	F. Zamponi <i>Tutorial: Relating Spins and Particles II</i>
12:30 – 13:45	Lunch
14:00 – 15:30	F. Ricci-Tersenghi <i>Advanced Cavity Applications I</i>

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Thursday, July 20th

9:00 – 10:30	A. Liu <i>A Real-Space View of Jamming III</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	S. Nagel <i>Experiments in Marginality I</i>
12:30 – 13:45	Lunch
14:00 – 15:30	F. Ricci-Tersenghi <i>Advanced Cavity Applications II</i>
18:30 – 18:55	Poster Talks III <i>Duane G130</i>
19:00 – 22:00	Poster Session III <i>11th Floor Commons Room</i>

Friday, July 21st

9:00 – 10:30	K. Daniels <i>Experimental Jamming I</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	S. Nagel <i>Experiments in Marginality II</i>
12:30 – 13:45	Lunch
14:00 – 15:30	F. Ricci-Tersenghi <i>Advanced Cavity Applications III</i>
19:00 – 21:30	Catered dinner <i>11th Floor Commons Room</i>

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	D. Weitz <i>Experimental Colloids 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	D. Weitz <i>Experimental Colloids I</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	P. Le Doussal <i>Advanced Disordered Topics I</i>

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Thursday, July 27th

9:00 – 10:30

G. Ben Arous

Random Matrices, Extreme Events II

10:30 – 11:00

Coffee Break

11:00 – 12:30

S. Sanguli

Neuroscience III

12:30 – 13:45

Lunch

14:00 – 15:30

P. Le Doussal

Advanced Disordered Topics 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