WELCOME

Frustrated and Disordered Systems

Boulder School for Condensed Matter and Material Physics 2017
(BSS2017)

University of Colorado at Boulder

$NSF-DMR$
School’s Founders

- Founded in 2000 with Steve Girvin, Matthew Fisher, and Andy Millis

Steve Girvin

Andy Millis

Matthew Fisher

- Millis -> Cristina Marchetti
School funding and operations

- MR $300K/year, thanks Daryl Hess
- University of Colorado (CU) Physics Department
- Advisor board of 20 distinguished scientists
- Past schools from superconductivity to biophysics
  - [http://boulderschool.yale.edu/](http://boulderschool.yale.edu/)
Boulder School 2017

- Frustrated and Disordered Systems

http://boulderschool.yale.edu/2017/boulder-school-2017

- Fantastic program; thanks to the co-organizers:

Patrick Charbonneau
Eric Corwin
Francesco Zamponi
Lenka Zdeborova
Local Details

- Assistants: Rayshan, Zhengzheng, Dakota
- Reimbursement: main Physics office
- Library privileges
- CU bike rental at bike station outside UMC
- Rec center facilities with name tag, pay at the door
- Computers: lab G116, UCB guest wireless, eduroam
- No alcohol in public areas
- No meals or housekeeping on weekends
Local Details

- Soccer ball, basketball, hiking guides,...need something? Ask
- Discussion room S106 in Buckingham, lounge, ping pong, etc
- Reserved special dining Tree House room (seats 20) in C4C for lunches and dinners (reserved dates posted in handout)
- AC in rooms only works with closed windows; close during the day
Things to do in Boulder

- Hiking (guides/maps available)
- Biking (rent on the Hill or at CU)
- Tubing in the Boulder creek
- Chautauqua park
- Eldorado Canyon
- Rocky Mountain National Park
- Red Rocks Amphitheater
- Pearl Street Mall fine dining and hanging out
# Scientific Program

<table>
<thead>
<tr>
<th>Weeks 1 &amp; 2: Basic tools</th>
<th>Glass track</th>
<th>Computer science track</th>
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<tr>
<th>Weeks 3 &amp; 4: Advanced topics</th>
<th>Glass track</th>
<th>Computer science track</th>
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<tbody>
<tr>
<td></td>
<td>Quantum glasses, jamming, self-assembly, Granular and colloidal glasses.</td>
<td>Algorithms and dynamics. Neurosciences.</td>
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*Main message of the school: substantial unity of methods between the two tracks!*
Participate

- Ask questions
- Organize student seminars, discussions and tutorials
- [https://www.facebook.com/groups/bouldersummerschool2017/](https://www.facebook.com/groups/bouldersummerschool2017/)
- Actively participate in poster sessions
- Meet classmates and lecturers
- T-shirts
### Scientific Program

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Remarks

If you feel lost or find the lectures tough, don’t be discouraged!

• Ask questions to the speakers

• Ask questions to the organisers: we can organise tutorials

• Some of the students already had training on these methods and they are available to help, answer questions, organise tutorials, etc.

• The first two weeks are crucial: don’t wait to react if you are lost
Poster talks

• Session of poster talks before each poster session

• These are ONE MINUTE advertisements for your poster. No slides!

• Goal: generate interest in your poster
## GSOFT sponsors:
- Soft matter sessions at March Meeting
- Early Career Award for Soft Matter Research
- APS Fellows nominations

## Why join as a student/post-doc?
- Travel grants for student speakers (up to $500)
- Student/post-doc poster prizes
- Short courses prior to March Meetings
- Get announcements about soft matter events
- Vote in GSOFT leadership elections
- Help GSOFT grow into an APS Division, so we can get more resources for soft matter!

## How much does it cost?
- First year is free.
- Annual dues: $10.
- Graduate students join 2 APS units for free.
- APS membership: $37/yr for grad students

## Questions about joining? Contact:
Vivek Sharma viveks@uic.edu, Daniel Beller dbeller@seas.harvard.edu, Eric Corwin ecorwin@uoregon.edu

Background image by Qiong Tang, courtesy of Joe Zasadzinski