

# Princeton Summer School on Condensed Matter Physics

## Prospects in Theoretical Physics

August 8 - 11 - McDonnell Hall A02

### Day 1      Monday, August 8

8:30 - 9:15      **Breakfast**  
 9:15 - 9:30      Opening remarks

9:30 - 10:45

David Huse, Princeton University

10:45 - 11:00      **Coffee Break**  
 11:00 - 12:15      Ultracold Atoms  
                          *Brian DeMarco, UIUC*

12:15 - 1:30      **Lunch**  
 1:30 - 2:45      Vadim Ogenseyan, Stonybrook  
 2:45 - 3:00      **Coffee Break**

3:00 - 4:15      Disordered Ultracold Atoms  
                          *Brian DeMarco, UIUC*

### Day 3      Wednesday, August 10

8:30 - 9:30      **Breakfast**  
 9:30 - 10:45      Numerical Overview of Many-body Localization  
                          *Bryan Clark, UIUC*

10:45 - 11:00      **Coffee Break**

11:00 - 12:15      Collin Broholm, JHU  
 12:15 - 1:30      **Lunch**

1:30 - 2:45      Vadim Ogenseyan, Stonybrook  
 2:45 - 3:00      **Coffee Break**  
 3:00 - 4:15

Phuan Ong, Princeton University

### Day 2      Tuesday, August 9

8:30 - 9:30      **Breakfast**  
 9:30 - 10:45      Localization in Ultracord Gases  
                          *Brian DeMarco, UIUC*

10:45 - 11:00      **Coffee Break**  
 11:00 - 12:15

Collin Broholm, JHU

12:15 - 1:30      **Lunch**  
 1:30 - 2:45

David Huse, Princeton University

2:45 - 3:00      **Coffee Break**  
 3:00 - 4:15      A Many-body Localization in the Language of  
                          Tensor Networks  
                          *Bryan Clark, UIUC*

### Day 4      Thursday, August 11

8:30 - 9:30      **Breakfast**  
 9:30 - 10:45

Vadim Ogenseyan, Stonybrook

10:45 - 11:00      **Coffee Break**  
 11:00 - 12:15

Phuan Ong, Princeton University

12:15 - 1:30      **Lunch**  
 1:30 - 2:45      What Numerical Simulations Have Taught us  
                          about Frustrated Magnets  
                          *Bryan Clark, UIUC*

2:45 - 3:00      **Coffee Break**  
 3:00 - 4:15

Collin Broholm, JHU