

JSF-CFB 2026 — Program

Sunday, 26 July 2026

18:00–19:30 **HAPPY HOUR**

19:30–21:30 Dinner at Peyresq

Monday, 27 July 2026

09:30–09:45 *Welcome*

09:45–10:30 Tingxin Li
Title: Fractional topological phases and unconventional superconductivity in twist MoTe₂

10:30–11:00 Coffee break

11:00–11:45 Benoit Gremaud
Title: TBA (Theory: anyon SC)

11:45–15:00 Break for lunch and discussions

15:00–15:45 Nicolas Regnault
Title: TBA (Numerics: anyon SC)

15:45–16:15 Coffee break

16:15–17:00 Ying Ran
Title: Hyperdeterminant wavefunctions

17:15–18:00 Hongyu Lu
Title: Collective excitations in chiral spin liquid: chiral roton and long-wavelength nematic mode

18:15–19:30 **HAPPY HOUR**

19:30–21:30 Dinner at Peyresq

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Tuesday, 28 July 2026

09:30-10:15	Jie Shan <i>Title: TBA (Experiment: FCI)</i>
10:15-10:45	Coffee break
10:45-11:30	Kai Sun <i>Title: Can Topological Flat Bands Outperform Landau Levels? — Designing Topological Flat Bands for Enhanced Many-Body Gaps and Tailored Excitations</i>
11:30-16:00	Break for lunch and discussions
16:00-16:45	Päivi Tömmä <i>Title: New superconducting phases in flat bands</i>
16:45-17:15	Coffee break
17:15-18:00	Inti Sodemann <i>Title: New gifts from Coulomb Gases to Laughlin, BCS, Moore- Read states and back</i>
18:15-19:30	HAPPY HOUR
19:30-21:30	Dinner at Peyresq

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Wednesday, 29 July 2026

09:30-10:15	Kin Fai Mak <i>Title: TBA (Experiment: FCI)</i>
10:15-10:45	Coffee break
10:45-11:30	Ady Stern <i>Title: A few thoughts on quantum geometry</i>
11:30-15:00	Break for lunch and discussions
15:00-15:45	Igor Herbut <i>Title: $O(8)$ unified theory of Dirac fermions in 2+1 dimensions (and the dark side of the Gross-Neveu model)</i>
15:45-16:15	Coffee break
16:15-17:00	Laura Classen <i>Title: Pairing from repulsive interactions in twisted WSe₂</i>
17:15-18:00	Fabien Alet <i>Title: TBA (Numerics: ???)</i>
18:15-19:30	HAPPY HOUR
19:30-21:30	Dinner at Peyresq

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Thursday, 30 July 2026

09:30-10:15	Lukas Janssen <i>Title: Dirac quantum criticality in moiré systems</i>
10:15-10:45	Coffee break
10:45-11:30	Yin-Chen He <i>Title: TBA (Theory & Numerics: Sphere criticality)</i>
11:30-16:00	Break for lunch and discussions
16:00-16:45	Chuang Chen <i>Title: QED3 under Zeeman field: emergent flux and spectral properties</i>
16:45-17:15	Coffee break
17:15-18:00	João Inacio <i>Title: Confinement and Gauss's law in unconstrained $U(1)$ lattice gauge theories: a quantum Monte Carlo study</i>
18:15-19:30	HAPPY HOUR
19:30-21:30	Dinner at Peyresq

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Friday, 31 July 2026

09:30-10:15	Long Ju <i>Title: TBA Emergent quantum phenomena in crystalline graphene</i>
10:15-10:45	Coffee break
10:45-11:30	Andrei Bernevig <i>Title: TBA (Theory: multilayer graphene)</i>
11:30-15:00	Break for lunch and discussions
15:00-15:45	Cheng Huang <i>Title: Gross-Neveu quantum criticality and incommensurate Kekulé spiral order in twisted bilayer graphene</i>
15:45-16:15	Coffee break
16:15-17:00	Johannes Hofmann <i>Title: Generalizing Deconfined Criticality to 3D N-Flavor SU(2) Quantum Chromodynamics on the Fuzzy Sphere</i>
17:15-18:00	Yves H. Kwan <i>Title: Fermiology and the Candidate Chiral Superconductor in Rhombohedral Tetralayer Graphene</i>
18:15-19:30	HAPPY HOUR
19:30-21:30	Dinner at Peyresq

JSF-CFB 2026 — Program

Saturday, 1 August 2026

- 09:30-10:15 Xi Dai
Title: Strongly Correlated Superconductivity in Twisted Bilayer Graphene: A Gutzwiller Study
- 10:15-10:45 Coffee break
- 10:45-11:30 Lidia Stocker
Title: TBA (NRG, impurities)
- 11:30-15:00 Break for lunch and discussions
- 15:00-15:45 Han Ma
Title: TBA (Theory: Kitaev spin liquid)
- 15:45-16:15 Coffee break
- 16:15-17:00 Maksim Ulybyshev
Title: Interaction-Induced altermagnetism in flat bands
- 18:00-19:30 **HAPPY HOUR**
- 19:30-21:30 Dinner at Peyresq

Sunday, 2 August 2026

- 10:00 Bus departure from Peyresq