

JSF-FSP 2023 — Program

Monday, 24 July 2023

08:30	Departure of minibus from Annot to Peyresq
09:30–09:45	<i>Welcome</i>
09:45–10:30	David Ceperley <i>The sign problem in the continuum</i>
10:30–11:00	Coffee break
11:00–11:45	Emilie Huffman <i>Sign-problem-free quantum Monte Carlo for gauge fields and matter without the fermion determinant</i>
11:45–15:00	Break for lunch and discussions
15:00–15:45	Benjamin Jäger <i>Equation of state from complex Langevin simulations</i>
15:45–16:15	Coffee break
16:15–17:00	Toshihiro Sato <i>Novel quantum Monte Carlo approach to tackle frustrated spin systems</i>
18:00	Departure of bus with everybody on board for the conference dinner at Annot
19:00–22:00	Conference dinner in Annot
22:00	Return to Peyresq from Annot after conference dinner

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Tuesday, 25 July 2023

08:30	Departure of minibus from Annot to Peyresq
09:30-10:15	Shiwei Zhang <i>(to be announced)</i>
10:15–10:45	Coffee break
10:45-11:30	Zi Yang Meng <i>Detective Dr. Dragon on polynomial sign problem in quantum Moiré systems</i>
11:30–16:00	Break for lunch and discussions
16:00-16:45	Chunhan Feng <i>Metal-insulator transition and magnetism in the $SU(3)$ Fermi–Hubbard Model</i>
16:45–17:15	Coffee break
17:15-18:00	Shailesh Chandrasekharan <i>Worldline approach to fermions</i>
19:30–21:30	Dinner at Peyresq
21:30	Return to Annot for those staying there

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Wednesday, 26 July 2023

- 08:30 Departure of minibus from Annot to Peyresq
- 09:30-10:15 Naoki Kawashima
Numerical studies of cubic anisotropy
- 10:15–10:45 Coffee break
- 10:45-11:30 Natalia Chepiga
Odd sequence of Wess–Zumino–Witten criticalities in the frustrated spin-5/2 chain
- 11:30–16:30 Break for lunch and discussions
- 16:30–17:00 Coffee break
- 17:00-17:45 Juraj Hasik
Simulating spin liquids with projected entangled-pair states
- 19:30–21:30 Dinner at Peyresq
- 21:30 Return to Annot for those staying there

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Thursday, 27 July 2023

08:30	Departure of minibus from Annot to Peyresq
09:30-10:15	Norbert Schuch <i>Study of topological spin liquids with tensor networks</i>
10:15–10:45	Coffee break
10:45-11:30	Si Min Chan <i>Computational studies on the enhancement of flat band superconductivity</i>
11:30–16:00	Break for lunch and discussions
16:00–16:45	Jens Eisert <i>Easing the sign problem</i>
16:45–17:15	Coffee break
17:15-18:00	Rubem Mondaini <i>Quantum critical points and the sign problem</i>
19:30–21:30	Dinner at Peyresq
21:30	Return to Annot for those staying there

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Friday, 28 July 2023

08:30	Departure of minibus from Annot to Peyresq
09:30-10:15	Michael Lindsey <i>Numerical advances in sampling and determinant ratio estimation for fermionic field theories</i>
10:15–10:45	Coffee break
10:45-11:30	Ryan Levy <i>Rotations and mitigating the sign problem</i>
11:30–16:30	Break for lunch and discussions
16:30–17:00	Coffee break
17:00-17:45	Gurtej Kanwar <i>Tackling sign and noise problems in lattice QFT using complex contour deformations</i>
19:30–21:30	Dinner at Peyresq
21:30	Return to Annot for those staying there

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Saturday, 29 July 2023

- 08:30 Departure of minibus from Annot to Peyresq
- 09:30-10:15 Denes Sexty
The phase diagram of QCD and the complex Langevin method
- 10:15–10:45 Coffee break
- 10:45-11:30 Maksim Ulybyshev
(to be announced)
- 11:30–16:00 Break for lunch and discussions
- 16:00-16:45 Alexander Wietek
Fragmented Cooper pair condensation in striped superconductors
- 16:45–17:15 Coffee break
- 17:15-18:00 Johannes Hofmann
Superconductivity, charge density wave, and supersolidity in flat bands with tunable quantum metric
- 19:30–21:30 Dinner at Peyresq
- 21:30 Return to Annot for those staying there

Sunday, 30 July 2023

- 10:00 Bus departure from Peyresq
- 10:45 Bus departure from Annot