

FORMAT

- ✻ **5 lectures (2 x 1 h)**
- ✻ **22 invited talks (1/2 h)**

	<i>Monday February 15</i>	<i>Tuesday February 16</i>	<i>Wednesday February 17</i>	<i>Thursday February 18</i>	<i>Friday February 19</i>
	Chair: Didier Poilblanc	Chair: Roman Orus	Chair: Didier Poilblanc	Chair: Frédéric Mila	Chair: Norbert Schuch
16:50	Welcome				
17:00	Frank Pollmann Natalia Chepiga	Lecture 1 Miles Stoudenmire	Lecture 1 Mike Zaletel	Lecture 2 Miles Stoudenmire	Lecture 2 Mike Zaletel
18:00	Lecture 1 David Perez-Garcia	Bruno Nachtergaele Roderich Moessner	Xiao-Liang Qi Philippe Corboz	Nicolas Regnault Leticia Tarruell	Misha Lukin Alexey Gorshkov
18:30			Nicolas Laflorencie		Andrei Bernevig
19:00					
19:30					

<i>Monday February 22</i>	<i>Tuesday February 23</i>	<i>Wednesday February 24</i>	<i>Thursday February 25</i>	<i>Friday February 26</i>
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Chair:
Frédéric Mila

Chair:
Didier Poilblanc

Chair:
Roman Orus

Chair:
Frédéric Mila

Chair:
Roman Orus

8:50

Welcome

9:00

Lecture 1

Lecture 1

Lecture 2

Lecture 2

Lecture 2

Tomotoshi
Nishino

Mari-Carmen
Banuls

Tomotoshi
Nishino

Mari-Carmen
Banuls

David
Perez-Garcia

10:00

Sid
Parameswaran

Ying-Jer Kao

Naoki
Kawashima

Keisuke Totsuka

Luca
Tagliacozzo

10:30

Masaki
Oshikawa

Cecile Repellin

Benoit
Vermersch

Laurens
Vanderstraeten

Frank Verstraete

11:00

Posters :
2 slides / 2 mins

14:00

Posters
Breakout rooms

Lectures

Mike Zaletel: *Fractional quantum Hall effect and twisted bilayer graphene*

Miles Stoudenmire: *Machine learning with tensor networks*

David Perez-Garcia: *Spectral gaps in PEPS: the possible and the impossible*

Tomotoshi Nishino: *Tensor networks for classical statistical mechanics*

Mari-Carmen Banuls: *Tensor networks and lattice gauge theories*

Invited talks (1st week)

Frank Pollman: *Quotient symmetry protected topological phenomena*

Natalia Chepiga: *Supersymmetric point in a ladder of constrained fermions*

Bruno Nachtergaele: *Stability of the bulk gap: How to prove it when gapless edge modes cannot be avoided*

Roderich Moessner: *Many-body physics in the NISQ era: quantum programming a discrete time crystal*

Xiao Liang Qi: *Effective entropy of quantum fields coupled with gravity*

Philippe Corboz: *Finite temperature iPEPS simulations of $\text{SrCu}_2(\text{BO}_3)_2$ under pressure*

Nicolas Laflorencie: *Quantum Magnetism on Small-World Networks*

Andrei Bernevig: *Topological chemistry*

Leticia Tarruell: *Realizing a chiral gauge theory in an optically-coupled Bose-Einstein condensate*

Nicolas Regnault: *Fractional chiral hinge insulators*

Misha Lukin: *Rydberg atoms*

Alexey Gorschkov: *Dynamics of quantum systems with long-range interactions*

Invited talks (2nd week)

Masaki Oshikawa: *TBA*

Sid Parameswaran: *Classical dimers on quasiperiodic tilings*

Ying-Jer Kao: *TBA*

Cecile Repellin: *Fractional Chern insulators of few bosons in a box: Hall plateaus from center-of-mass drifts and density profiles*

Naoki Kawashima: *TBA*

Benoit Vermersch: *Probing mixed-state, symmetry-resolved, entanglement, with randomized measurements*

Keisuke Totsuka: *Designing topological gauge theories with quantum wires*

Laurens Vanderstraeten: *A scaling hypothesis for PEPS*

Luca Tagliacozzo: *Universality and scaling in the out-of-equilibrium dynamics*

Frank Verstraete: *Algebraic structures in tensor networks*