

Format of school / workshop:

INTRODUCTORY LECTURE

7 (60' + 45') lectures intended
to non-experts and students

SHORT- REVIEW

10 1-hour short-review invited talks

BLACK BOARD TALK...

1 1/2 hour black board talk

Research

9 3/4-hour research talks

Junior

4 20' talks

WEEK 1

	<i>Monday February 6</i>	<i>Tuesday February 7</i>	<i>Wednesday February 8</i>	<i>Thursday February 9</i>	<i>Friday February 10</i>
9:00	Garnet CHAN Introduction to MPS	Naoki KAWASHIMA lecture #2	Norbert SCHUCH Introduction to Tensor Networks	Xiaoliang QI lecture #2	Jens EISERT Capturing topo ordered fermionic systems with TN
10:00	Coffee	Coffee	Coffee	Coffee	Coffee
10:15	Naoki KAWASHIMA Introduction to Quantum Monte Carlo	Garnet CHAN Stripe order in the 2D Hubbard phase diagram	Xiaoliang QI Random TN and holographic duality	Norbert SCHUCH lecture #2	Piotr CZARNIK TN approach for 2D thermal states
11:00	LUNCH Discussions	LUNCH Discussions	LUNCH Discussions	LUNCH Discussions	LUNCH Discussions
16:30	Coffee	Coffee	Coffee	Coffee	Coffee
16:45	Nathalie GUIHERY Quantum chemistry: methodology and applications	Ruben VERRESEN Dynamics of the Kitaev-Heisen. model	Discussions 17:30	Sheghan JIANG Classification and simulation by symmetric TNs	17:15
17:45	Yasir IQBAL Nematic orders in a frustrated ferromagnet	Tsuyoshi OKUBO GS properties of Na ₂ IrO ₃	Federico BECCA The frustrated Heisenberg model on the honeycomb lattice	Matthieu MAMBRINI Classification of SU(2)-symmetric TNs	Thorsten WAHL MBL using Tensor Networks
18:30					Augustine KSHETRIMAYUM
	<i>Reception</i>				

WEEK 2

	<i>Monday February 13</i>	<i>Tuesday February 14</i>	<i>Wednesday February 15</i>	<i>Thursday February 16</i>	<i>Friday February 17</i>
9:00	Titus NEUPERT Introduction to TQFT	Hong-Hao TU Lecture # 2	Paul FENDLEY Lecture # 2: Long coherence time from edge modes	German SIERRA Breaking the area law	Anne NIELSEN Quasiparticles in lattice FQH models
10:00	Coffee	Coffee	Coffee	Coffee	Coffee
10:15	Hong-Hao TU Characterizing chiral topological states	Paul FENDLEY Lecture #1: Non-Abelian statistics from edge modes	Titus NEUPERT Lecture # 2	Boyer BUYENS Real-time simulations of Schwinger model	Carlos FERNANDEZ- GONZALEZ Symmetrizing PEPS
11:00	LUNCH Discussions	LUNCH Discussions	LUNCH Discussions	LUNCH Discussions	LUNCH Discussions
16:30	Coffee	Coffee	Coffee	Coffee	Coffee
16:45	Frédéric MILA / Miklos LAJKO Majorana edge modes in TFI model / Haldane's conjecture for SU(3) spin chains	Coffee	Senaida HERNÁNDEZ SANTANA Correlations decay in LR interacting systems	Kareljan SCHOUTENS Non-abelian anyons in 2+1 dimensions	Frank SCHINDLER Natalia CHEPIGA Spontaneous dimerization in a frustrated spin-1 chain
17:45	Dima ABANIN Many-body localisation	Frank verstraete	Antoine STERDYNIAK Bosonic FQH state by pairing fermions	Jose GARRE RUBIO Symmetries through Anyons condensation with TN	Carolín WILLE Fermionic topological TN
18:45				Ryo SAKAI	Philipp SCHMOLL
	Reception				