ICMU

INTERNATIONAL CENTRE
FOR MATHEMATICS
IN UKRAINE

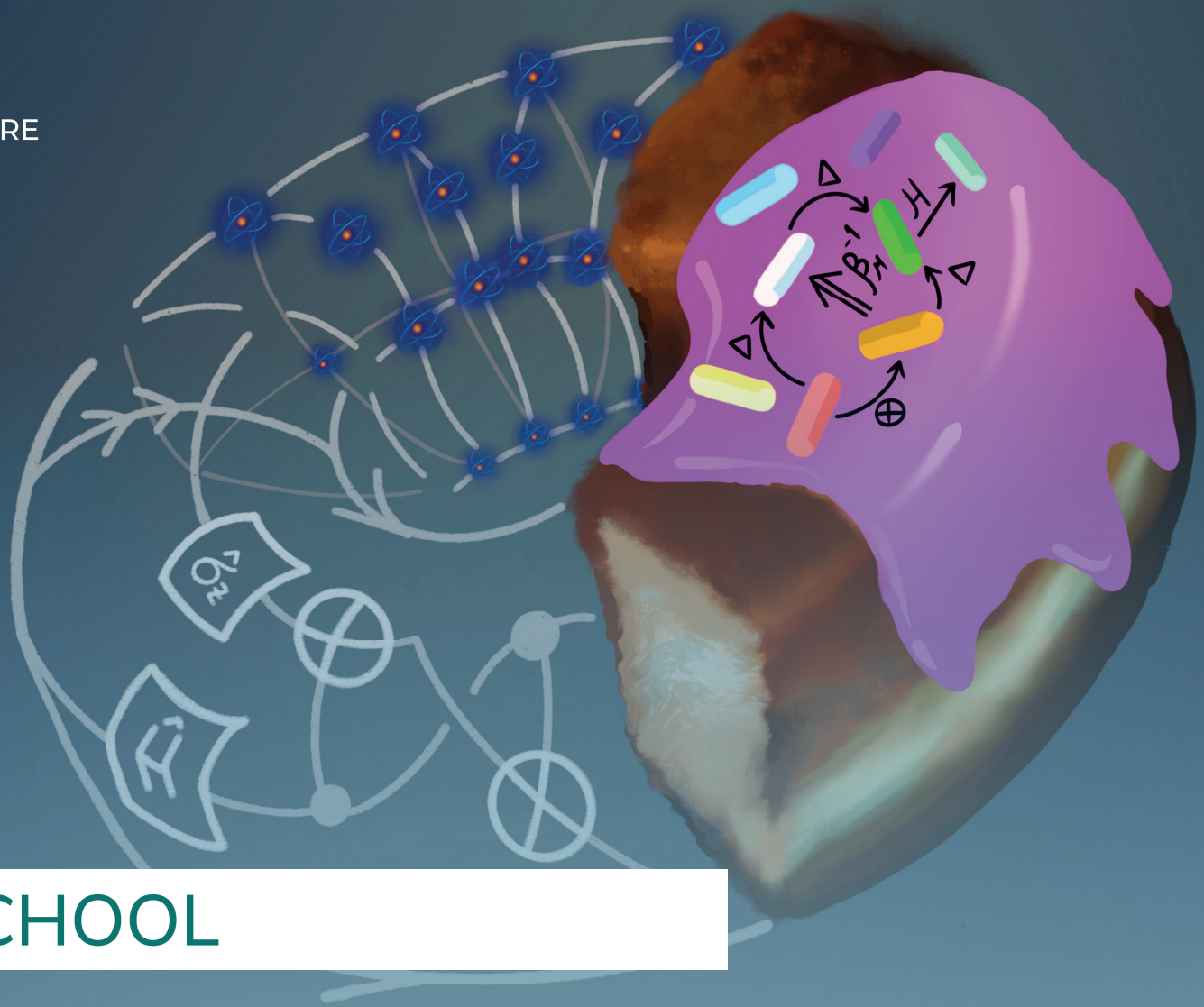

Illustration by Yevheniia Cheipesh

ICMU WINTER SCHOOL

5 - 23 January 2026

MATHEMATICS OF QUANTUM MATTER

VENUE **ICMU Working Space, Kyiv**

This school explores the intersection of quantum information, condensed matter physics, and modern mathematics. It aims to provide advanced undergraduate and graduate students with a foundation for approaching quantum matter physics through connections with fields like topological field theory, homotopy theory, category theory, operator algebras, tensor networks, and complexity theory.

LECTURE SERIES

Operator algebras and topological phases	**Corey JONES,** *North Carolina State University*
Topological field theories	**Vincentas MULEVICIUS,** *University of Vienna*
Tensor networks	**Norbert SCHUCH,** *University of Vienna*
Computational aspects of fermionic quantum many-body systems	**Barbara Terhal,** *QuTech & DIAM / TU Delft*

INVITED LECTURERS

Agnès BEAUDRY, *University of Colorado Boulder*
Nils CARQUEVILLE, *University of Vienna*
Margarita DAVYDOVA, *California Institute of Technology*
Pavel ETINGOF, *Massachusetts Institute of Technology*
Anton KAPUSTIN, *California Institute of Technology*
Olexei MOTRUNICH, *California Institute of Technology*

ORGANISERS

Lukas MUELLER, *Perimeter Institute*
Mykola SEMENYAKIN, *Perimeter Institute*
Alex TURZILLO, *Perimeter Institute*

INFORMATION AND APPLICATION

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deadline 15 October 2025

KSE Kyiv School of Economics · Delta · TU Delft · Universiteit Leiden · Instituut-Lorentz · EPFL