

# **Chez Pierre Seminar Series**

by Condensed Matter Group

**Mondays at noon ET in the Duboc Seminar Room (4-331) unless otherwise stated.**

## **Spring 2025**

**January 29, 2025 (Special condensed matter seminar – Wednesday at 12:00 pm)**

**Speaker: Erez Berg, Weizmann Institute**

**Title: “Preparing topological ground states on quantum simulators”.**

**Host: Liang Fu**

**January 30, 2025 (Special condensed matter seminar – Thursday at 12:00 pm)**

**Speaker: Raffaele Resta, CNR-IOM Istituto Officina dei Materiali, Trieste, Italy**

**Title: “Geometrical observables in condensed matter: Polarization, orbital magnetization, and more”**

**Host: Liang Fu**

**January 31, 2025 (Special condensed matter seminar- Friday at 1:00 pm)**

**Speaker: Ben Feldman, Stanford University**

**Title: “Twisted trilayer graphene under the microscope”.**

**Host: Liang Fu**

**February 10, 2025**

**Speaker: Qiong Ma, Boston College**

**Title: “Topology and Correlations in monolayer TaIrTe<sub>4</sub>”.**

**<https://physics.mit.edu/wp-content/uploads/2025/02/Qiong-Ma-Chez-Pierre-announcement-poster.pdf>**

**Host: Riccardo Comin**

**February 17, 2025 (Holiday – No Chez Pierre seminar. Presidents' Day)**

**February 24, 2025**

**Speaker: Alexey Tsvelik, Brookhaven National Laboratory**

**Title: “RKKY driven non-Fermi liquid behavior in Kondo lattices”.**

**[https://physics.mit.edu/wp-content/uploads/2025/01/Alexei-Tsvelik-Chez-Pierre\\_announcement-poster.pdf](https://physics.mit.edu/wp-content/uploads/2025/01/Alexei-Tsvelik-Chez-Pierre_announcement-poster.pdf)**

**Host: Leonid S. Levitov**

**March 3, 2025**

**Speaker: Angel Rubio, Max Planck Institute**

**Title: “Harnessing Cavity Vacuum Fluctuations for Quantum Materials Engineering: a QEDFT Framework”.**

**[https://physics.mit.edu/wp-content/uploads/2025/01/Angel-Rubio.-Chez-Pierre\\_announcement-poster.pdf](https://physics.mit.edu/wp-content/uploads/2025/01/Angel-Rubio.-Chez-Pierre_announcement-poster.pdf)**

**Host: Riccardo Comin**

**March 10, 2025**

**Speaker: Tonghang Han, MIT**

**Title: “Chiral Superconductivity in Rhombohedral Graphene”**

**[https://physics.mit.edu/wp-content/uploads/2025/02/Tonghang-Han-Chez-Pierre\\_announcement-poster.pdf](https://physics.mit.edu/wp-content/uploads/2025/02/Tonghang-Han-Chez-Pierre_announcement-poster.pdf)**

**Host: Xiao-Gang Wen**

**March 14, 2025 (Special Chez Pierre seminar Friday at 12:30 pm in Duboc room)**

**Speaker: Luyi Yang, Tsinghua University**

**Title: “Terahertz-frequency magnons and chiral phonons in a kagome ferromagnetic Weyl semimetal“**

**[https://physics.mit.edu/wp-content/uploads/2025/03/Luyi-Yang-Chez-Pierre\\_announcement-poster.pdf](https://physics.mit.edu/wp-content/uploads/2025/03/Luyi-Yang-Chez-Pierre_announcement-poster.pdf)**

**Host: Long Ju**

**March 17, 2025 (No Chez Pierre Seminar due to the March APS meeting)**

**March 24, 2025 (No Chez Pierre seminar – Spring Break Week)**

**March 31, 2025**

**Speaker: Margarita Davydova, Caltech**

**Title: “Stabilizing topological order below 4D and dynamical phases of matter”.**

**[https://physics.mit.edu/wp-content/uploads/2025/03/Margarita-Davydova-Caltech-Pierre\\_announcement-poster-pdf.pdf](https://physics.mit.edu/wp-content/uploads/2025/03/Margarita-Davydova-Caltech-Pierre_announcement-poster-pdf.pdf)**

**Host: [Liang Fu](#)**

**April 1, 2025 ( Special Chez Pierre seminar-Tuesday at 12pm in Duboc room)**

**Speaker: Yi Teng, Max Planck Institute for the Physics of Complex Systems**

**Title: “Solving fractional quantum Hall states with self-attention neural networks”**

**[https://physics.mit.edu/wp-content/uploads/2025/03/Yi-Teng-Chez-Pierre\\_announcement-poster.pdf](https://physics.mit.edu/wp-content/uploads/2025/03/Yi-Teng-Chez-Pierre_announcement-poster.pdf)**

**Host: [Liang Fu](#)**

**April 7, 2025**

**Speaker: Qimiao Si, Rice University**

**Title: “Strange metals and flat bands: From topological heavy fermions to superconducting twisted-WSe<sub>2</sub>”**

**[https://physics.mit.edu/wp-content/uploads/2025/02/Qimiao-Si-Chez-Pierre\\_announcement-poster.pdf](https://physics.mit.edu/wp-content/uploads/2025/02/Qimiao-Si-Chez-Pierre_announcement-poster.pdf)**

**Host: [Senthil Todadri](#)**

**April 14, 2025**

**Speaker: Shi-zeng Lin, Los Alamos National Laboratory**

**Title: “Enhanced Kohn-Luttinger Superconductivity in Ideal Bands”**

[https://physics.mit.edu/wp-content/uploads/2025/03/Shizeng-Lin-Chez-Pierre\\_announcement-poster.pdf](https://physics.mit.edu/wp-content/uploads/2025/03/Shizeng-Lin-Chez-Pierre_announcement-poster.pdf)

Host: Long Ju

**April 21, 2025 (Holiday – No Chez Pierre seminar. Patriot’s Day)**

**April 28, 2025**

Speaker: Tim Hsieh, Perimeter Institute

Title: “Markov Length: A Diagnostic for Mixed State Quantum Phases and Fault Tolerance”

[https://physics.mit.edu/wp-content/uploads/2025/02/Tim-Hsieh-Chez-Pierre\\_announcement-poster.pdf](https://physics.mit.edu/wp-content/uploads/2025/02/Tim-Hsieh-Chez-Pierre_announcement-poster.pdf)

Host: Liang Fu

**May 5, 2025**

Speaker: Hadar Steinberg, Hebrew University

Title: “Universality of Upper Critical Field in the TMD Superconductor Family“

[https://physics.mit.edu/wp-content/uploads/2025/02/Hadar-Steinberg-Chez-Pierre\\_announcement-poster.pdf](https://physics.mit.edu/wp-content/uploads/2025/02/Hadar-Steinberg-Chez-Pierre_announcement-poster.pdf)

Host: Pablo Jarillo-Herrero

**May 12, 2025 (Cancelled)**

Speaker: Yulin Chen, University of Oxford

Host: Liang Fu