

Chez Pierre Seminar Series

by Condensed Matter Group

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

Fall 2024

September 9, 2024

Speaker: Jiadong Zang, University of New Hampshire

Title: **“Topological Hall Effects in Chiral Magnets”**

https://physics.mit.edu/wp-content/uploads/2024/08/Jiadong-Zang-Chez-Pierre_announcement-poster.pdf

Host: [Liang Fu](#)

September 16, 2024

Speaker: Mindga Li, MIT

Title: **“Exploring Potential Roles of Machine Learning in Quantum Materials Research”**.

https://physics.mit.edu/wp-content/uploads/2024/07/Mingda-Li-Chez-Pierre_announcement-poster.pdf

Host: [Liang Fu](#)

September 23, 2024

Speaker: Zachariah Addison, Wellesley College

Title: **“Unified Theory of Anomalous and Topological Hall Effects with Phase-Space Berry Curvatures: Electric, Thermal, and Thermoelectric Transport in Chiral Magnet Materials”**

https://physics.mit.edu/wp-content/uploads/2024/08/Zachariah-Addison-Chez-Pierre_announcement-poster.pdf

Host: [Ali Ghorashi](#)

September 30, 2024

Speaker: Yizhi You, Northeastern University

Title: “**Decoherence and dissipation induced topological phenomenon in open quantum system**”.

https://physics.mit.edu/wp-content/uploads/2024/09/Yizhi-You-Chez-Pierre_announcement-poster-1.pdf

Host: [Xiao-Gang Wen](#)

October 7, 2024

Speaker: Francisco Guinea, IMDEA Software Institute

Title: “***Superconductivity in graphene stacks.***“

https://physics.mit.edu/wp-content/uploads/2024/09/Francisco-Guinea-Chez-Pierre_announcement-poster-copy.pdf

Host: [Liang Fu](#)

October 14, 2024 (Holiday- Indigenous Peoples’ Day- No Chez Pierre seminar)

October 15, 2024 (Special Chez Pierre seminar- Tuesday)

Speaker: Gregory Falkovich, Weizmann Institute

Title: “**Looking for quarks in a stormy sea**”

https://physics.mit.edu/wp-content/uploads/2024/09/Gregory-Falkovich-Chez-Pierre_announcement-poster.pdf

Host: [Leonid Levitov](#)

October 21, 2024

Speaker: Jiaqi Cai, MIT

Title: “**Progress of fractional quantum anomalous Hall effect in twisted MoTe₂**”.

https://physics.mit.edu/wp-content/uploads/2024/09/Jiaqi-Cai-Chez-Pierre_announcement-poster.pdf

Host: [Raymond Ashoori](#)

October 25, 2024 (Special Chez Pierre seminar- Friday at 11 am)

Speaker: Ady Stern, Weizmann Institute

Title: “**Novel quantized and unquantized composite fermion states**”

https://physics.mit.edu/wp-content/uploads/2024/10/Ady-Stern-Chez-Pierre_announcement-poster.pdf

Host: [Long Ju](#)

October 28, 2024

Speaker: Carolyn Zhang, Harvard University

Title: “**Thermalization rates, Liouvillian gaps, and operator spreading**”

https://physics.mit.edu/wp-content/uploads/2024/10/Carolyn-Zhang-Chez-Pierre_announcement-poster.pdf

Host: [Xiao-Gang Wen](#)

October 29, 2024 (Special Chez Pierre seminar-Tuesday at 12pm)

Speaker: Meng Cheng, Yale University

Title: “**Anomalous insights into quantum phases in open systems**”.

https://physics.mit.edu/wp-content/uploads/2024/10/Meng-Cheng-Chez-Pierre_announcement-poster.pdf

Host: [Liang Fu](#)

November 4, 2024

Speaker: Martin Greven, University of Minnesota

Title: “**New developments in oxide superconductors – the role of inherent inhomogeneity**”.

https://physics.mit.edu/wp-content/uploads/2024/09/Martin-Greven-Chez-Pierre_announcement-poster-copy.pdf

Host: [Nuh Gedik](#)

November 11, 2024 (Holiday – Veterans’ Day- No Chez Pierre seminar)

November 18, 2024

Speaker: Yuval Ronen, Weizmann Institute of Science

Title: “**Anyons in van der Waals materials**”

https://physics.mit.edu/wp-content/uploads/2024/09/Yuval-Ronen-Chez-Pierre_announcement-poster.pdf

Host: [Long Ju](#)

November 25, 2024

Speaker: Dima Pesin, University of Virginia

Title: “**Linear and nonlinear magnetotransport on a quantum spin Hall edge**”.

https://physics.mit.edu/wp-content/uploads/2024/10/Dima-Pesin-Chez-Pierre_announcement-poster.pdf

Host: [Leonid S. Levitov](#)

December 2, 2024

Speaker: Eddie Farhi, Emeritus (Google/MIT)

Title: “**Finding low energy configurations of the Sherrington Kirkpatrick model using a quantum algorithm**”.

https://physics.mit.edu/wp-content/uploads/2024/11/Eddie-Farhi-Chez-Pierre_announcement-poster65.pdf

Host: [Senthil Todadri](#)

December 4, 2024 (Special Chez Pierre seminar- Wednesday at 1:00 pm)

Speaker: Moshe Ben Shalom, Tel Aviv University

Title: ” **Super-lubricant Switching of Coupled Periodic Crystals**“.

https://physics.mit.edu/wp-content/uploads/2024/12/Moshe-Ben-Shalom-Chez-Pierre_announcement-poster.pdf

Host: [Aviram Uri](#)

December 9, 2024

Speaker: Brian Skinner, Ohio State University

Title: “**Chiral Wigner crystal phases induced by Berry curvature**”.

https://physics.mit.edu/wp-content/uploads/2024/11/Brian-Skinner-Chez-Pierre_announcement-poster.pdf

Host: [Leonid S. Levitov](#)