

# **Chez Pierre Seminar Series**

by Condensed Matter Group

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

**Spring 2023**

February 13, 2023

Speaker: Yong Baek Kim, University of Toronto

Title: “Quantum Spin Liquids and Criticality in Multipolar Materials“

[https://physics.mit.edu/wp-content/uploads/2023/01/Yong-Baek-KimChez-Pierre\\_announcement-poster.pdf](https://physics.mit.edu/wp-content/uploads/2023/01/Yong-Baek-KimChez-Pierre_announcement-poster.pdf)

Host: Senthil Todadri

February 20, 2023 (Presidents' Day- No Chez Pierre seminar)

February 23, 2023 (Special Chez Pierre seminar)

Speaker: Timothy Hsieh, Perimeter Institute for Theoretical Physics

Title: “Opening up quantum criticality”.

[https://physics.mit.edu/wp-content/uploads/2023/02/Timothy-Hsieh-Chez-Pierre\\_announcement-poster.pdf](https://physics.mit.edu/wp-content/uploads/2023/02/Timothy-Hsieh-Chez-Pierre_announcement-poster.pdf)

Host: Liang Fu

February 27, 2023

Speaker: Javier Sanchez-Yamagishi, University of California in Irvine (UCI)

Title: "Squeezing 3D to 2D: ultrathin bismuth crystals grown inside an atomically-flat van der Waals mold"

[https://physics.mit.edu/wp-content/uploads/2023/02/Javier-Sanchez-Yamagishi-Chez-Pierre\\_announcement-poster.pdf](https://physics.mit.edu/wp-content/uploads/2023/02/Javier-Sanchez-Yamagishi-Chez-Pierre_announcement-poster.pdf)

Host: Pablo Jarillo-Herrero

March 6, 2023 (No Chez Pierre Seminar due to the March APS meeting)

March 13, 2023

Speaker: TBA

Title: TBA

Hosts: TBA

March 20, 2023 (Cancelled)

March 27, 2023

Speaker: Suyang Xu, Harvard University

Title: "Axion optical control of antiferromagnetic order".

[https://physics.mit.edu/wp-content/uploads/2023/03/Suyang-Xu-Chez-Pierre\\_announcement-poster-2-1.pdf](https://physics.mit.edu/wp-content/uploads/2023/03/Suyang-Xu-Chez-Pierre_announcement-poster-2-1.pdf)

Host: Liang Fu

April 3, 2023

Speaker: Ilija Zeljkovic, Boston College

Title: "Imaging the cascade of symmetry-broken electronic states in kagome superconductors".

[https://physics.mit.edu/wp-content/uploads/2023/03/Ilija-Zeljkovic-Chez-Pierre\\_announcement-poster.pdf](https://physics.mit.edu/wp-content/uploads/2023/03/Ilija-Zeljkovic-Chez-Pierre_announcement-poster.pdf)

Host: Riccardo Comin

April 10, 2023

Speaker: Kun Yang, Florida State University

Title: "Interplay of Topology and Geometry in Fractional Quantum Hall Liquids."

[https://physics.mit.edu/wp-content/uploads/2023/03/Kun-Yang-\\_Chez-Pierre\\_announcement-poster.pdf](https://physics.mit.edu/wp-content/uploads/2023/03/Kun-Yang-_Chez-Pierre_announcement-poster.pdf)

Host: Liang Fu

April 14, 2023 (Special Chez Pierre seminar)

Speaker: Ady Stern, Weizmann Institute of Science

Title: "On the interplay of localization, topology and symmetry".

[https://physics.mit.edu/wp-content/uploads/2023/04/Ady-Stern\\_Chez-Pierre\\_announcement-poster2.pdf](https://physics.mit.edu/wp-content/uploads/2023/04/Ady-Stern_Chez-Pierre_announcement-poster2.pdf)

Host: Pablo Jarrillo Herrero

April 17, 2023 ( No Chez Pierre seminar due to Patriot's Day)

April 24, 2023

Speaker: Vidya Madhavan, (UIUC)

Title: "Magnetic Field Induced Melting of a Charge Density Wave".

[https://physics.mit.edu/wp-content/uploads/2023/04/Vidya-Madhavan-Chez-Pierre\\_announcement-poster.pdf](https://physics.mit.edu/wp-content/uploads/2023/04/Vidya-Madhavan-Chez-Pierre_announcement-poster.pdf)

Host: Liang Fu

May 1, 2023

Speaker: Zhanybek Alpichshev, Institute of Science and Technology Austria (ISTA)

Title: "Shining light on Lead-Halide Perovskites: what optics can tell about the inner workings of the Solar-Cell-champion material".

[https://physics.mit.edu/wp-content/uploads/2023/04/Zhanybek-Alpichshev-Chez-Pierre\\_announcement-poster.pdf](https://physics.mit.edu/wp-content/uploads/2023/04/Zhanybek-Alpichshev-Chez-Pierre_announcement-poster.pdf)

Host: Nuh Gedik

May 8, 2023

Speaker: Zhiqiang Mao, Pennsylvania State University

Title: “Spin-valley locking, bulk quantum Hall effect and nonlinear Hall effect in a noncentrosymmetric Dirac material”.

[https://physics.mit.edu/wp-content/uploads/2023/04/Zhiqiang-Mao-Chez-Pierre\\_announcement-poster.pdf](https://physics.mit.edu/wp-content/uploads/2023/04/Zhiqiang-Mao-Chez-Pierre_announcement-poster.pdf)

Host: Liang Fu

May 15, 2023

Speaker: Benjamin Feldman, Stanford University

Title: “Moiré band engineering: tuning the itineracy and topology of correlated states”.

[https://physics.mit.edu/wp-content/uploads/2023/04/Ben-Feldman\\_Chez-Pierre\\_announcement-poster.pdf](https://physics.mit.edu/wp-content/uploads/2023/04/Ben-Feldman_Chez-Pierre_announcement-poster.pdf)

Host: Raymond Ashoori

May 26, 2023 (Special Chez Pierre seminar)

Speaker: Qian Niu, University of Science and Technology, China

Title: “Particle view in crystals”.

[https://physics.mit.edu/wp-content/uploads/2023/04/Qian-Niu\\_Chez-Pierre-Announcement-poster-pdf22.pdf](https://physics.mit.edu/wp-content/uploads/2023/04/Qian-Niu_Chez-Pierre-Announcement-poster-pdf22.pdf)

Host: Liang Fu