

# Yale Physics

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## Upcoming Events

### Monday, February 24

**1:30pm:** Experimental Quantum Seminar. Boris Braverman, University of Ottawa, "[Cavity QED with Alkaline-Earth Atoms](#)" in Wright Lab 216. Host: Bonnie Fleming.

**10:30am:** Yale Quantum Institute Seminar. Alp Sipahigil, Caltech, "[Optical photon generation from a superconducting qubit](#)" in Yale Quantum Institute Seminar Room.

**2:30pm:** Mechanical Engineering & Materials Science Seminar. Yun-Hsuan (Melody) Su, University of Washington, "[Learning to See Force: Knowledge Discovery and Perception Complementarity in Robot-Assisted Surgery](#)" in Mason Lab 107. Host: Udo Schwarz.

**4:00pm:** The Franke Program in Science and the Humanities. Ross Anderson, Deputy Editor of The Atlantic, "[Writing at the Intersection of Science and the Arts](#)" in Whitney Humanities Center Auditorium.

### Tuesday, February 25

**10:30am:** Experimental Quantum Seminar. Jacob Covey, California Institute of Technology, "[Entanglement and metrology in an array of alkaline-earth atoms](#)" in Sloane Physics Lab 59. Host: Audrey Francisco.

**12:00pm:** PEB Distinguished Speaker. em Prof. Dr. Michael Grunze, Max Planck Institute for Medical Research, "[Micro-droplet arrays for studying biofilm formation and for antibiotic screening](#)" in Mann Student Center Dunham Lab 107. Host: Joerg Bewersdorf. Lunch will be served.

**1:00pm:** Nuclear-Particle-Astrophysics Seminar. Carols Perez, Stony Brook University, "[Recent Results on Small Systems at RHIC](#)" in Wright Lab 216. Host: Owen Miller.

**1:00pm:** Dissertation Defense. Norman Lam, Yale University, "[Inhibitory Regulation of Cognitive Functions in Cortical and Thalamic Circuits: Computational Mechanisms and Experimental Predictions](#)" in Sloane Physics Lab 63. Thesis Advisor: John Murray.

**3:00pm:** Office of the Provost Town Hall Meeting. "Intellectual vision for a new physical science and engineering building" in Kroon Hall Auditorium.

### **Wednesday, February 26**

**10:00am:** Dissertation Defense. Qing (Shilo) Xia, Yale University, "[Search for Neutrinoless Double Beta Decay and Detector Physics Measurements with the Final EXO-200 Dataset](#)" in Wright Lab 216. Thesis Advisor: David Moore.

**12:30pm:** PEB Distinguished Speaker. Prof. Amy Maddox, University of North Carolina, Chapel Hill, "Contractile oscillations help reveal mechanisms of cytoskeletal remodeling in cytokinesis" in Yale Science Building 352. Host: Tom Pollard. Lunch will be served.

**1:30pm:** Experimental Quantum Seminar. Xiaoqian Chen, Lawrence Berkeley National Laboratory, "[Tracking phase fluctuations in quantum materials using coherent x-rays](#)" in Wright Lab 216. Host: Bonnie Fleming.

**4:00pm:** Department of Molecular, Cellular and Developmental Biology Seminar. Damon Clark, Yale University, "[Dissecting neural computations in the fly eye](#)" in Yale Science Building O.C. Marsh Lecture Hall. Host: Vivian Irish. Tea at 3:45pm.

**4:00pm:** Department of Earth & Planetary Sciences Colloquium. Mark Brandon, Yale University, "Title TBA" in Kline Geology Laboratory 123.

**4:15pm:** Department of Mathematics Colloquium. Chenyang Xu, Massachusetts Institute of Technology, "[Algebraic K-stability theory of Fano varieties](#)" in Leet Oliver Memorial Hall 215.

**4:30pm:** The Franke Program in Science and the Humanities. Zia Haider Rahman, Novelist. "[The Two Cultures in Imagination and Writing](#)" in Whitney Humanities Center Auditorium.

### **Thursday, February 27**

**1:05pm:** Special Theoretical Physics Seminar. Lina Necib, Caltech, "[Dark Matter in the Era of Gaia](#)" in Wright Lab 216. Host: Nikhil Padmanabhan.

**2:30pm:** Nuclear-Particle-Astrophysics Seminar. Jonathan Pober, Brown University, "[Observing the Early Universe with 21 cm Cosmology](#)" in Wright Lab 216. Host: Benjamin Saliwanchik.

**2:30pm:** Yale Astronomy & Astrophysics Colloquium. Debra Fischer, Frank van den Bosch, Meg Urry, Pieter van Dokkum, Sarbani Basu, Yale University, "[The Yale Astronomy Research Landscape](#)" in Watson Center A-51.

**4:00pm:** The Impact of the Atom Film and Lecture Series. Leslie Dewan, Nucleation Capital, LP., "[Save the world with nuclear power](#)" in Sloane Physics Lab 59. Host: Shelly Leshner.

### **Friday, February 28**

**1:30pm:** Dissertation Defense. Arpit Dua, Yale University, "[Structure of fracton stabilizer models](#)" in Sloane Physics Lab 56. Thesis Advisor: Meng Cheng & Liang Jiang.

More events

# News



## **Kyungjoo Noh defends graduate thesis “Quantum computation and communication in bosonic systems”**

On February 14, 2020, Kyungjoo Noh successfully defended his thesis, “Quantum computation and communication in bosonic systems” (advisor: Liang Jiang).

**Full Story**



## **Catherine Matulis defends graduate thesis “Contrast adaptation in Drosophila direction-selective circuits”**

On February 14, 2020, Catherine Matulis successfully defended her thesis: “Contrast adaptation in Drosophila direction-selective circuits” (Advisor: Damon Clark).

**Full Story**

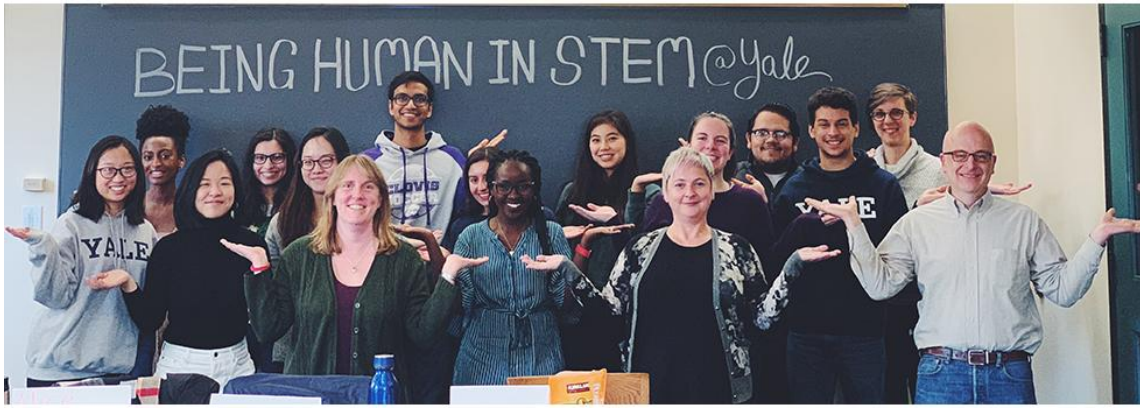


## **Richard Majka - In Memoriam**

It is with a heavy heart that I share with you the sad news about the passing of our friend and colleague Dick Majka. Please see the note below from John and Helen. We will keep you posted about the arrangements for his memorial.

**Full Story**

# Community



## Climate and Diversity Committee

Please consider filling out the WWF survey for any/all buildings you visit during the course of the day at Yale. As the survey says "Having products available all over campus shows that Yale is expecting people with menstrual bleeding to be there and reinforces that they belong here." Free products have been available in many of the Physics department's buildings for several years and many of us appreciate it greatly. Let's a) highlight that physics is doing this, and b) join the effort to ensure other departments follow suit.

### WWF Survey on Menstrual Product Availability on Campus

WWF would like to collect data about menstrual product availability on campus. If you could please fill out this [short survey](#) about menstrual product availability in your department and building, we would be very grateful.

*If interested in joining the [CDC](#), please contact [Helen Caines](#), Chair of CDC. You may contact the whole committee at [physics-cdc@mailman.yale.edu](mailto:physics-cdc@mailman.yale.edu)*



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