

Yale Department of Physics

Yale Physics Newsletter

February 23, 2018

News

Welcome to **Jan Olivier Grasdijk** a new postgraduate associate working in the DeMille group. In his words ... “I am from the Netherlands (also known as Holland), where I did my PhD at the Van Swinderen Institute at the University of Groningen, a city in the north of the Netherlands with a population of 200k. In my free time I play field hockey and I usually go skiing a week every year. I also enjoy sailing, which I hope to pick up again in New Haven.

My PhD research was on the MiXed experiment to measure the electric dipole moment of ^{129}Xe , which I should be defending around summer.

At the Sloan Physics Lab I will be working in the DeMille group on CeNTREX to search for the nuclear Schiff moment using ^{205}Tl nuclei in thallium fluoride molecules.”

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Nicholas Read (Henry Ford II Professor of Physics) has been elected a member of the Connecticut Academy of Science and Engineering (CASE). The Connecticut Academy of Science and Engineering is a private, nonprofit, public-service institution patterned after the National Academy of Sciences. The Academy identifies and studies issues and technological advances that are or should be of concern to the people of Connecticut, and provides unbiased, expert advice on science- and technology-related issues to state government and other Connecticut institutions. It is comprised of distinguished scientists and engineers from Connecticut’s academic, industrial, and institutional communities. Membership is limited by the Academy’s Bylaws to 400 members.

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Laura Newburgh (Assistant Professor of Physics) has been awarded a prestigious [NSF Faculty Early Career Award](#). Her proposal, entitled Towards Dark Energy – A High-precision Drone-based Calibrator for Next-Generation 21cm Cosmology Experiments will fund her to develop and use radio telescopes to map out the expansion history of the Universe. [Click here](#) for full story.

Save the Date

Spring Recess is coming! March 9-25, 2018. Also, please be on the lookout for prospective graduate students visiting during the Graduate Admissions Open House April 6-7, 2018.

Seminars

Monday, February 26 Department of Mechanical Engineering and Materials Science Seminar. Maria Lukatskaya, Stanford University, “Design and Development of Materials for High Performance Electrochemical Capacitors”, ML 107 at 2:30pm. Host: Prof. Udo Schwarz.

Monday, February 26 Physics Club. Walter Goldberger, Yale University, “Black holes from quarks, gravitational waves from gluons”, SPL 57 at 3:30pm. Host: Charles Baltay. Tea after the talk in SPL 3rd Floor Lounge.

Monday, February 26 Department of Molecular Biophysics and Biochemistry Colloquium. Carlos Salgueiro, Universidade Nova de Lisboa, “Rational engineering of *Geobacter sulfurreducens* electron transfer components: a foundation for improved *Geobacter*-based technologies”, Bass 305 at 4:00pm. Host: Nikhil Malvankar. Tea before the talk at 3:45pm.

Tuesday, February 27 Dissertation Defense. Yvonne Gao, Yale University, “Multi-cavity Operations in Circuit Quantum Electrodynamics”, YQI Seminar Room at 10:00am. Thesis Advisor: Robert Schoelkopf.

Tuesday, February 27 Special Atomic Physics Seminar. Mikhail Kozlov, Petersburg Nuclear Physics Institute, “Parity nonconserving corrections to the spin-spin coupling in molecules”, SPL 52 at 12:00 pm. Host: David DeMille.

Tuesday, February 27 Yale Center for Astronomy and Astrophysics Seminar. Smadar Naoz, University of California-Los Angeles, “Triples are Here and There, Triples are Everywhere (Triples in Planets, Stars, and Black holes)”, WTS A-51 at 2:30pm.

Tuesday, February 27 Particle Theory Seminar. Michael Dine, University of California-Santa Cruz, “Title TBA”, SPL 52 at 4:00pm.

Tuesday, February 27 Department of Chemistry Lecture in Biophysical Chemistry. Nicolas Fawzi, Brown University, “Structural Details and Regulation of Protein Phase Separation Associated with Membraneless Organelles, Neurodegeneration, and Cancer”, SCL 110 at 4:00pm.

Wednesday, February 28 Dissertation Defense. Xin Li, Yale University, “Nano-confined interfaces: from artificial ion channels to nanofluidic battery”, DL 514 at 10:30am. Thesis Advisor: Mark Reed.

Wednesday, February 28 Department of Molecular, Cellular and Developmental Biology Seminar. David Nelson, University of California-Riverside, “The evolution of karrikin and strigolactone signaling in plants”, SCL 160 at 4:00pm. Host: Josh Gendron. Tea before the talk at 3:45pm.

Thursday, March 1 Condensed Matter Seminar. Omrie Ovdad, Technion, "Observing a Scale Anomaly and a Universal Quantum Phase Transition in Graphene", SPL 52 at 1:00pm. Host: Yoram Alhassid.

Thursday, March 1 Nuclear Particle Astrophysics (NPA) Seminar. Christine Aidala, University of Michigan, "Spin-Momentum Correlations, Aharonov-Bohm, and Color Entanglement in Quantum Chromodynamics", WL 216 at 1:00pm.

Thursday, March 1 Department of Astronomy Colloquium. Pieter van Dokkum, Yale University, "Hunting ghostly galaxies with the Dragonfly Telephoto Array", WTS A-51 at 2:30pm.

Thursday, March 1 Office for International Students and Scholars Event. Non-Academic Career Panel for International PhD Students, OISS (421 Temple Street) at 5:30pm. [Register here](#).

Friday, March 2 Dissertation Defense. David Meltzer, Yale University, "Topics in the Analytic Bootstrap", SPL 51 at 1:00pm. Thesis Advisor: David Poland.

Friday, March 2 Special Condensed Matter Seminar. Vedika Khemani, Harvard University, "Title TBA", SPL 52 at 1:00pm. Host: Meng Cheng.

For more seminars see: <http://physics.yale.edu/calendar>

From ITS - **Web Accessibility Policy, required site updates, & info sessions**

All university websites must include or link to an [Accessibility Statement](#) page and to a form allowing the submission of requests, comments and suggestions on technology accessibility. The [Web Accessibility Policy](#) goes into effect Thursday, March 1, and requires changes to university websites so they are accessible to people with disabilities.

Yale ITS will automatically update any YaleSites using an unmodified version of the YaleSites 2016 theme to include an [Accessibility Statement](#) page in the footer beginning the morning of Monday, February 26, 2018 and completing by midday Tuesday, February 27, 2018. We strongly encourage all content editors to attend an [Accessibility training workshop](#).

For more news please see <http://physics.yale.edu/news>

[Announcements](#)

Reminder – when making purchases on a p-card a tax-free account will need to be set up by filing a tax exemption with the company. [Click here](#) for more information about this process and for who to contact to get an Exemption Certificate from the tax office.

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For further information on any of the items included here or if you would like to contribute to the next newsletter, send email to [Daphne Klemme](#).

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Please [click here](#) for updates on the Yale Science Building, including a new logistics plan. The project encompasses the construction of a new state of the art sciences laboratory at the approximate location of the demolished J.W. Gibbs building, a comprehensive renovation of the KBT Plaza, a lecture hall, and a common area at the south end of KBT Plaza.