

# Yale Department of Physics

Yale Physics Newsletter

December 8, 2017

## News

The Physics Department will be holding its annual Holiday Luncheon on Monday, December 11, 2017 from 12: to 3:00 in SPL 3rd floor lobby. We will be accepting donations for Toys for Tots. We encourage you to join in the holiday spirit of giving and bring a toy to the event.

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Prizes! Prizes! Prizes! Look for our five-question quiz in the December 15<sup>th</sup> issue of the newsletter. The winner will receive a departmental hoodie (any undergraduate student will receive a comparable prize) and a gift card.

Newsletter Contest rules:

1. Contestants must be affiliated with the Physics Department
2. The first person to answer all five questions correctly wins (determined by the date/time stamp on the email submissions). In case of a tie there will be a tie-breaker question.
3. May use <https://physics.yale.edu/news/physics-department-weekly-newsletter-archive> to find answers
4. Deadline: December 29<sup>th</sup> with winner announced in the first issue of 2018 on January 5<sup>th</sup>

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Congratulations to Anthony Lollo on the successful defense of his thesis "Phase slips in isolated mesoscopic superconducting rings"! His advisor was Jack Harris.

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

## Announcements

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](mailto: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.

## Save the Date

The Graduate Open House is scheduled for April 5-6, 2018. Please do be aware and do what you can to make the prospective students feel welcome.

## Seminars

**Monday, December 11** PHYS 471 Final Presentations. Sloane Physics Lab, rm. 56 at 2:00pm-5:00pm. [Click here](#) for full schedule.

**Monday, December 11** Physics Club. Phillip Barbeau, Duke University, "The World's Smallest Neutrino Detector", SPL 57 at 3:30pm. Host: Karsten Heeger. Tea after the talk at 4:30 in Sloane Physics Lab 3rd Floor Lounge.

**Monday, December 11** Molecular Biophysics & Biochemistry Seminar. Laurent Blanchoin, CNRS, CEA, Grenoble, France, "Directed Actin Cytoskeleton Self Organization, Contractility and Motility", Bass 305 at 4:00pm.

**Monday, December 11** Department of Chemistry Lecture in Inorganic Chemistry. Professor Paul Chirik, Princeton University, "Catalysis with Earth Abundant Transition Metals", SCL 111 at 4:30pm.

**Tuesday, December 12** Joint NPA/WIDG Seminar. Phillip Barbeau, Duke University, "The World's Smallest Neutrino Detector", WLC 108 at 12:00pm. [RSVP](#) for lunch.

**Tuesday, December 12** Yale Quantum Institute Distinguished Lecturer Series. Tobias Kippenberg, Ecole Polytechnique Federale de Lausanne, "Title TBA", YQI Seminar Room. Lecture followed by a buffet at 12:00pm.

**Tuesday, December 12** Yale Systems Biology Institute Seminar. Dennis E. Discher, University of Pennsylvania, "From matrix rigidity to nuclear rupture, DNA damage, and genome variation", Yale West Campus Conference Center Room 218 at 1:00pm.

**Tuesday, December 12** Condensed Matter Theory Seminar. Dave Aasen, Caltech, "Fermion condensation and superconducting string-nets", SPL 52 at 1:00pm.

**Tuesday, December 12** PHYS 471 Final Presentations. Sloane Physics Lab, rm. 56 at 2:00pm-5:00pm. [Click here](#) for full schedule.

**Tuesday, December 12** Yale Center for Astronomy & Astrophysics Seminar. Stacey Alberts, University of Arizona, "Countdown to JWST & Extragalactic Science with MIRI", WTS A-51 at 2:30pm.

**Wednesday, December 13** Yale Quantum Institute Seminar. Tobias Kippenberg, Ecole Polytechnique Federale de Lausanne, "Title TBA", YQI Seminar Room at 11:00am.

**Wednesday, December 13** MENG 471/473 Final Presentations. Mann Engineering Student Center, 1<sup>st</sup> Floor of Dunham Lab at 12:00pm-3:30pm. [Click here](#) for full schedule.

**Wednesday, December 13** PHYS 471 Final Presentations. Sloane Physics Lab, rm. 56 at 2:00pm-5:00pm. [Click here](#) for full schedule.

**Wednesday, December 13** Molecular, Cellular and Developmental Biology Seminar. Marian Walhout, University of Massachusetts Medical School, "Nutritional regulatory networks", SCL 160 at 4:00pm. Host: Scott Holley. Tea at 3:45pm.

**Thursday, December 14** Dissertation Defense. Stefan Elrington, Yale University, "Title TBA", SPL 56 at 2:00pm. Thesis Advisor: Sean Barrett.

**Friday, December 15** Dissertation Defense. Jeremy Cushman, Yale University, "A search for neutrinoless double-beta decay in tellurium-130 with CUORE", WL 216 at 1:00pm. Thesis Advisor: Karsten Heeger.

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

**It is time to update your benefits!** From December 1 – December 15 at 5pm, to change or newly elect benefits, go to your Workday inbox. [Click here](#) for instructions.

### [Jobs](#)

**Pathways to Science Summer Scholars Program** call for Teaching Proposals. Pathways Summer Scholars is a tuition-free summer program for local New Haven high school students who are interested in pursuing STEM majors and careers. Each year, students take short, one-week workshops in Yale laboratories taught by faculty and graduate students like you. Past workshops have included Neuroscience, Safer Chemicals, Consciousness, Biotechnology, Ecology & Ecosystems, Metals as You Have Never Seen Them Before, and more! Pathways Summer Scholars workshops run 90 mins/day for 5 weekdays in July (July 16-20 and July 23-27). Teaching positions pay \$250 per 5-day course.

To view last year's workshops, [click here](#).

To view pictures, [click here](#).

Applications accepted on a rolling basis until Friday, December 15, 2017. [Click here](#) to download the application and submit to [Maria Parente](#).

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**Canada's Perimeter Institute for Theoretical Physics (PI)**, welcomes applications for the Emmy Noether Visiting Fellowship. The Emmy Noether Fellowships are central to Perimeter Institute's initiatives to support female physicists. Perimeter Institute promotes an inclusive, welcoming culture and a family-friendly workplace.

The Fellowship provides financial and organizational support for relocation, which may include some or all of the following:

- teaching buyouts
- salary support or top-up
- local expenses
- accommodation
- return transportation and research-related travel
- reimbursement as required for child care

Emmy Noether Visiting Fellowships are held for periods of up to one year. Early-career faculty-level scientists are especially encouraged to apply.

More information and application may be found at [perimeterinstitute.ca/emmynoether](http://perimeterinstitute.ca/emmynoether). Deadline for applications is January 15, 2018. [Click here](#) for poster.