

Yale Department of Physics

Yale Physics Newsletter

September 8, 2017

News

The ONEXYS for Physics Summer program for students entering PHYS 170 or PHYS 180 in the Fall has just successfully concluded its second outing.

Starting in Summer 2016, the Physics department initiated a new online summer program specifically targeting Yale students, planning to take introductory physics the following Fall, who were underprepared in the required mathematical skills. This program — ONEXYS for Physics — was created as a special track of the already existing ONEXYS program (<http://onexys.yale.edu>) for incoming first years and is the result of a close collaboration between Physics, the Math department and the Center for Teaching and Learning (CTL).

<http://physics.yale.edu/academics/undergraduate-studies/summer-2017-s-onexys-physics>

Claudia De Grandi and Simon Mochrie (instructors of PHYS 170) designed and Claudia directed the first implementation of the program in Summer 2016, which was geared to incoming PHYS 170 students. Gratifyingly, students who participated in the program achieved remarkably high learning gains, and then went on to be highly successful in PHYS 170-171 last year.

In Summer 2017, the program continued and expanded. Together with Claudia and Simon, Adriane Steinacker (instructor of PHYS 180) joined the team to help design the program to be appropriate for both PHYS 180 and PHYS 170 incoming students. In collaboration with Jim Rolf and John Hall from the Math department, the material from the first implementation was revised to include some basic physics content, such as vectors and kinematics. Physics graduate student, Jared Rovny, led Summer 2017's implementation to success, directing the program and advising the coaches day-to-day during its six-week duration.

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[Click here](#) for Yale Travel News covering travel to the Caribbean and Southern US, Hilton & Marriott cancellation policy change, electronics ban lifted, and Egencia's new log-in process.

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

Save the Date

Physics & Applied Physics welcome reception is Wednesday, September 13, 2017 (6pm-8pm). Make sure to RSVP!

Seminars

Monday, September 11 Yale Physics Club. William Bialek, Princeton University and the Graduate Center, City University of New York, "The physics of life: How much can we calculate?", SPL 57 at 3:30pm. Tea served after the talk in SPL Third Floor Lounge. Host: R. Shankar.

Monday, September 11 Department of Molecular Biophysics and Biochemistry Departmental Colloquium. Bo Huang, UCSF, "Watching the Inner Life of the Cell: GRIXPR, GFP and Imagenomics", Bass 305 at 4:00pm. Tea at 3:45pm. Host: Lynne Regan.

Tuesday, September 12 NSF Day in Connecticut at the University of St. Joseph 7:30am-5:45pm. Register by **Wednesday, September 6**. [Click here](#) for further information.

Tuesday, September 12 Yale Center for Astronomy and Astrophysics Seminar. Or Graur, Harvard-Smithsonian Center for Astrophysics, "Rage against the dying of the light: what can we learn from three-year-old supernovae?", WTS A-51, at 2:30pm. Coffee/tea and cookies will be served before the seminar at 2 PM in the coffee lounge of Steinbach Hall (52 Hillhouse).

Tuesday, September 12 Particle Theory Seminar. Valentina Prilepina, UC Davis, "Weyl vs. Conformal Invariance in Quantum Field Theory: Are They Equivalent?", SPL 52 at 3:30pm.

Wednesday, September 13 Department of Molecular, Cellular and Developmental Biology Seminar. Frank Slack, Harvard University, "MicroRNA-based therapeutics in cancer", SCL 160 at 4:00pm. Tea at 3:45pm. Host: Joe Wolenski.

Wednesday, September 13 Geology & Geophysics Colloquium. Jessica Creveling, Oregon State University, "Title TBA", KGL 123 at 4:00pm.

Thursday, September 14 Astronomy Colloquium. Erwin Lau, Yale University, "Modeling baryonic physics in galaxy clusters with cosmological simulations", WTS A-51 at 2:30pm.

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

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.

Jobs

Fall tutoring positions available through [Bulldog Tutors](#). The positions are paid and the company is located at 142 Temple Street. Pay rates start at \$30/hour. Interested students can email Jas Jernail at jas.jernail@bulldogtutors.com.