

News

Harvard-Smithsonian Center for Astrophysics
itamp.harvard.edu

Spring 2019

“150 years of Periodic table”

Workshops, Topical Groups, & Schools

New Frontiers in Cold Molecules

Kang-Kuen Ni (*Harvard University*), Tanya Zelevinsky (*Columbia University*), Alexey Gorshkov (*University of Maryland*), Immanuel Bloch (*Ludwig-Maximilians-Universität*).
05/21/2019 to 05/23/2019

Laboratory Cosmology: AMO Physics Techniques and Applications for Cosmological Phenomena

Markus Aspelmayer (*University of Vienna*), Hossein Sadeghpour (*ITAMP*)
09/16/2019 to 09/18/2019

Many-body Physics with Cold Ions

Michael Drewsen and Thomas Pohl (*Aarhus University*)
10/14/2019 to 10/16/2019

Dynamics and Precision Spectroscopy in Hydrogen

Chris H. Greene (*Purdue*), Christian Jungen (*UCL*) and Frédéric Merkt (*ETH*)
03/30/2020 to 04/01/2020

ITAMP/B2 Institute Winter Graduate School on AMO Physics, “Astrochemistry”, February 23-29, 2020 at Biosphere 2.

Donate to *Dalgarno* Memorial Lectures
Endowment Fund

<https://community.alumni.harvard.edu/give/16040850>

Call for proposals
Propose workshops, topical groups, ideas
for the winter schools and requests for
visits to ITAMP at
itamp.harvard.edu

2018 workshops, conferences, winter school

In 2018, ITAMP organized five workshops, including two joint workshops with UCL and the University of Aarhus. The ICAMDATA conference was held in Cambridge in 2018 and partly sponsored by ITAMP. The 2018 Winter School on Quantum Metrology was held in February 2018 at the B2 Institute Campus in AZ. The workshop presentations and the school lectures are available for viewing on the ITAMP youtube channel under playlists.

* * *

2019 Postdoctoral Fellows



Valentin Walther was appointed as the 2019 ITAMP postdoctoral fellow. He will arrive in the Fall 2019 to begin his appointment. Valentin graduated from the University of Aarhus under the supervision of Thomas Pohl. His thesis was under the general heading of optical nonlinearities in Rydberg gases and excitons in semiconductors. He maintains close collaborations with leading experimental groups in Europe.

* * *



SEND YOUR STUDENTS TO THE
ITAMP/B2 INSTITUTE
2020 WINTER SCHOOL!

www.cfa.harvard.edu/itamp/WinterSchool2020.html

2020 Postdoctoral Fellowship application will open in
September 1, 2019.

www.cfa.harvard.edu/itamp/postdoctoral.html

To New and Better Things



Hannes Pichler will move on to better things soon. At present time, we can't give much in the way of details.

* * *

Latest News

Rivka Bekenstein won the 2018 DAMOP Debbie Jin Thesis Prize



We are delighted that **Rivka Bekenstein** has won the DAMOP Thesis Prize competition. She, in fact, becomes the first winner of the renamed thesis prize, the Debbie Jin Thesis Prize. Congratulations Rivka. Well deserved.

* * *

Nicole Yunger Halpern's Thesis has won!



We're elated to announce that **Nicole Yunger-Halpern** has won the 2019 *Ilya Prigogine Prize* for Thermodynamics. She gave a talk on May 23 in Barcelona. Great work, Nicole.

Follow this news on the ITAMP website and here:
<http://quantum-thermodynamics.unibs.it/PrigoginePrize/PrigoginePrize.htm>.
Nicol's thesis is at <https://thesis.library.caltech.edu/10942/>.

* * *

Contact the ITAMP Coordinator Naomi Tariri for information and questions at ntariri@cfa.harvard.edu

The Institute for Theoretical Atomic, Molecular and Optical Physics is supported by a grant from the National Science Foundation. Any opinion, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

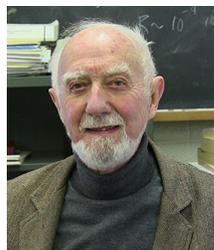
Rising Stars



ITAMP postdocs **Bihui Zhu** and **Rivka Bekenstein** participated in "2019 Rising Stars in Physics Workshop" hosted by the Physics department at Stanford, which aimed to bring the next generation of physics academic leaders together for scientific discussions and informal sessions on navigating the early stages of the academic career. The two ITAMP post-docs were chosen to participate in the workshop out of more than 100 applicants.

* * *

Dalgarno Memorial Lectures Endowment Fund Established



We welcome you to suggest candidates for the recently endowed Dalgarno Memorial Lectures.

Alex Dalgarno was a leading theorist in atomic and molecular physics, but his work touched many fields and

many people. Among the fields he crucially and importantly contributed to were aeronomy, molecular astrophysics, ultracold collisions and ultracold chemistry. Donations to the endowment fund are welcome. If you'd wish to donate, please go here: <https://community.alumni.harvard.edu/give/16040850>. In selecting a fund, choose Other - FAS, and enter Dalgarno Memorial Lectures for the fund name.

* * *

Visiting Fellows

Peter Drummond (*Swinburne University of Technology, Australia*)
Margaret Reid (*Swinburne University of Technology, Australia*)
Joachim Burgdoerfer (*TU Wien*)
Peter Schmelcher (*University of Hamburg*)
Asa Larson (*Stockholm University*)
Ann Orel (*University of California, Davis*)
Jeremy Hutson (*Durham University*)
Janine Shertzer (*Holy Cross*)

ITAMP continues to offer videos from workshops and the Winter Schools on YouTube. Videos can be found by searching for "ITAMP/Physics" at youtube.com.