

The Physics Department of the University of Crete, together with the Insitute of Theoretical and Computational Physics are organizing a one-day workshop to discuss several hot topics driving the current surge of quantum science and technology. The presentations will be pedagogical and accessible by undergraduate and graduate students. The workshop will feature Professor Demetri Psaltis as honorary speaker, who will be conferred the title of Honorary Professor of the Physics Department of the University of Crete.

09:50 Welcome

10:00 Giorgos Tsironis

Quantum machine learning

10:30 Spyridon Sotiriadis

Non-equilibrium dynamics in quantum many-body systems

11:00 Iannis Kominis

Quantum biology, the new frontier of quantum science

11:30 Coffee Break

12:15 Georgios Kontakis, *UoC Rector* 

12:20 Alexandros Georgakilas, *Physics Dept Chairman* 

12:25 Giorgos Tsironis

12:30 Demetri Psaltis

Optics and machine learning

13:30 Reception

15:00 Liverios Lymperakis

Implications of quantum mechanics at surfaces for the properties of modern optoelectronic devices

15:30 Xenophon Zotos

Hot to cold tales

16:00 Konstantinos Makris

Frontiers of photonics: optics in the complex plane

16:30 Discussion and Closure









Department of Mathematics, "Nikos Petridis" Lecture Hall