OSSC Meeting Announcement

May 11th, 2022

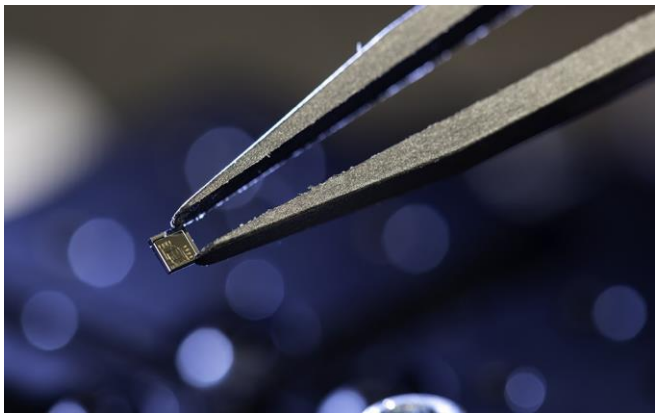
Precision Measurements with Integrated Optics

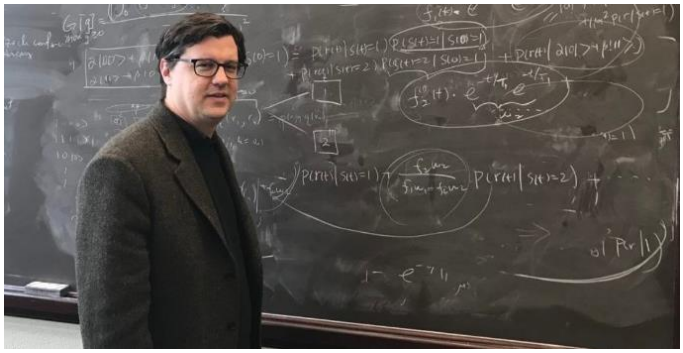
Dr. Andrew Jordan

Co-Director, Inst. Quantum Studies

Dept. Physics, Chapman University

Abstract: The advent of integrated optics has allowed the miniaturization of optical platforms from the size of an optical table to the size of a fingernail. An introduction to this field of science and technology will be presented. I will discuss recent work on the precision measurements of optical phase, frequency, and rotation using this type of miniature optical sensor. The incorporation of ``weak value amplification'' a technique that sacrifices power for improved signal into integrated optical platforms will be presented.





About our speaker:

Prof. Jordan received his B.S. in Physics and Mathematics (1997) from Texas A&M University and his Ph.D. in Theoretical Physics (2002) from the University of California, Santa Barbara, supervised by Prof. Mark Srednicki. He was a postdoctoral fellow at the University of Geneva (2002-2005) with Prof. Markus Büttiker, and a research scientist at Texas A&M (2005-2006) with Prof. Marlan Scully. He served on the faculty at the University of Rochester from 2006-2021. Dr. Jordan joined Chapman University in 2021 as co-Director of the Institute for Quantum Studies and Professor of Physics. He is a member of the APS, Optica, and is a Simons Fellow in theoretical physics.

OSSC Event Wednesday, May 11th, 2022

Registration Required: http://www.ossc.org

Reception: 6:00; Dinner: 7:00; Talk: 8:00

Online Session Open: 7:30 (Zoom link provided on day of meeting)

	By May 6th	After May 6th
Zoom or no Meal	Free	Free
Students	$10	$30
Members	$35	$45
Non-Members	$40	$50

Max Capacity Onsite for the In-Person Social Hour, Dinner, OSSC Meeting, Post-Presentation Conversations is 80!

MKS Instruments (Newport Corp.)

1791 Deere Avenue

Irvine, CA 92060