



Physical Research Laboratory, Ahmedabad

PRL Student Chapter Public Lecture- 2019

Speaker: Prof. Ady Arie

Tel Aviv University

Title: “Mixing and shaping of light beams”

Time: Wednesday, 25 September 2019, 18.00 hrs.

Venue: K.R. Ramanathan Auditorium, PRL

Abstract

Nonlinear optics is one of the most fascinating sub-fields of the science of light. It enables to efficiently generate radiation at wide range of wavelengths, from the ultraviolet to the mid-infrared. The talk will cover basic properties of light waves and of light sources, fundamentals of nonlinear wave mixing and finally some advanced topics, related to patterned nonlinear crystals, all-optical shaping of structured light, and the generation of non-classical light by spontaneous parametric down-conversion.

The Speaker

Prof. Ady Arie received his B.Sc. degree in Mathematics and Physics from the Hebrew University of Jerusalem in 1983. In 1986 and 1992 he received his M.Sc. degree in Physics and Ph.D. degree in Engineering from Tel-Aviv University. Between 1991 and 1993 he was a Wolfson and Fulbright postdoctoral scholar in the group of Prof. Robert L. Byer at Ginzton Laboratory, Stanford University, U.S.A.

In 1993 he received the Alon Fellowship for new faculty members from the Israeli Council of Higher Education and joined the Dept. of Physical Electronics, School of Electrical Engineering in the Fleischman Faculty of Engineering, Tel-Aviv University. In 2006 he became a Professor of Electrical Engineering. In the years 2001-2005 he also served as a co-founder and chief technology office of ZettaLight Inc., a startup company in the field of optical wavelength management. Prof. Arie served as the Vice Dean of Research of the Faculty of Engineering in the years 2011-2013 and as the Head of the School of Electrical Engineering in the years 2013-2017. Currently he is the Head of the Tel Aviv University Center for Light-Matter Interaction and the incumbent of the Marko and Lucie Chaoul Chair in Nano-Photonics. In 2016 he won the Kadar Foundation Award for Excellence in Research.

Prof. Arie is a Fellow of the Optical Society of America, and the Chair of the Israel Section of IEEE-Photonics. In the years 2008-2014 he served as a topical editor of Optics Letters and since 2018 he is an associate editor of Optica. His research in the last years is in the areas of nonlinear optics – in particular periodic and quasi-periodic nonlinear photonic crystals, nonlinear beam shaping and control – as well as in electron microscopy and plasmonics.

Prof. Arie is the co-author of more than 190 publications in peer-reviewed scientific journals, 2 book chapters and 6 patents. He served as the supervisor of more than 50 MSc, PhD and Postdoc students, many of them became leaders in academic institutes (in Israel, Canada, China and India), in the high tech industry and in government research labs.

Tea at 17:30 hrs

ALL ARE WELCOME

**Link for Registration (Mandatory) to attend
(PRL/ISRO/SAC Members Need not to Register)**

<https://www.prl.res.in/public/scoplecture/>

Registration by 24.09.2019, 17.00 hrs ,on first come first serve basis

