



Indian Institute of Technology Kanpur

INSTITUTE LECTURE SERIES

April 27, 2022 (Wednesday) | 6.00 pm | BSBE Seminar Room

Speaker: Prof. Miguel A. Alonso

**The Poincaré sphere, its generalizations,
& their several applications in optics**



About the Speaker

Miguel A. Alonso received the degree of Engineer in Physics from the Universidad Autonoma Metropolitana in Mexico City and the PhD degree in Optics from the University of Rochester. He joined the faculty of The Institute of Optics in 2003, and in 2018 he moved to the Institut Fresnel and Centrale Marseille, France, initially as an A*MIDEX Chair of Excellence. Since January 2020 he serves as the Editor in Chief for Optics Letters and as Director of Research at Centrale Marseille.

About the Talk

In this talk the speaker will discuss the concept of the Poincaré sphere and its applications in optics, not only for describing paraxial polarization but also the spatial structure of optical beams, both within the ray and wave models. He will also discuss generalizations of the Poincaré sphere for the case of non-paraxial polarization (where all three field components are important), and their application in a novel technique for fluorescent microscopy.

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All are cordially invited to attend

Covid protocols to be followed strictly

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