**Floquet Solitons in Photonic Topological Materials**

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In this talk, I shall elaborate on the design and development of waveguide-based intricate photonic devices with topologically non-trivial photonic bands. These devices are fabricated using fs laser-writing, and the non-trivial topology is generated by employing suitable periodic modulations along the propagation distance. I shall discuss the experimental evidence of robust edge transport and the formation of shape-preserving nonlinear modes (i.e., solitons) in such topological materials.

A person with glasses smiling

Description automatically generated**Short Bio:**

**Sebabrata Mukherjee** undertook his Ph.D. at Heriot-Watt University, Edinburgh, in the area of experimental simulation of solid-state phenomena in photonic structures and was subsequently awarded "The 2016 MacFarlane Prize" for the most outstanding contribution to the research at the University. He worked as a postdoctoral scholar at Heriot-Watt University and the Pennsylvania State University, USA. He is an Assistant Professor in the Department of Physics IISc Bangalore, India. His research interests include photonics and condensed matter physics.