

TopoDays 2016: Topological Effects in Photonics

From 18th till 20th of April, 2016

(Polo Scientifico e Tecnologico Fabio Ferrari – Povo 1 and Povo 2)

18th of April, 2016

14:00-14:20 INTRODUCTION TO TOPODAYS – Room B102, Povo 2

SESSION I: PHOTONIC LATTICES

14:20 - 15:00 *Aspects of Topological Photonics* **Mikael Rechtsman**, Pennsylvania State University, USA

15:00 - 15:40 *Experimental observation of anomalous edge states in photonic lattices* **Patrik Ohberg**, Heriot-Watt University, Scotland, UK

15:40 - 16:00 *Coffee break*

16:00 - 16:40 *Topological photonic crystals and magnetoplasmons* **Ling Lu**, Massachusetts Institute of Technology, USA

16:40 - 17:20 *Towards topological quantum fluids of microwave light in lattices of superconducting resonators* **Jerome Esteve / Julien Gabelli**, Université Paris-Sud, France

19th of April, 2016

SESSION II:THEORY - 9.00 - 12.00 Room A213 and 14.00 - 16.00 Room A108, Povo 1

09:00 - 09:40 *Synthetic Dimensions in Integrated Photonics* **Tomoki Ozawa** - INO-CNR BEC Center, Trento, Italy

09:40 - 10:20 *Dynamical Gauge Fields in Optomechanics* **Stefan Walter**, University of Erlangen-Nuremberg, Germany

10:20 - 10:40 *Coffee break*

10:40 - 11:20 *On the adiabatic preparation of a Floquet Chern insulator* **Lorenzo Privitera**, SISSA, Italy

11:20 - 12:00 *Weyl semimetals in artificial gauge potentials* **Michele Burrello**, Max-Planck-Institut für Quantenoptik, Germany

12:00 - 14:00 *Lunch break*

14.00 - 16.00 **Grazia Salerno**, PhD thesis defence

Organized by:

UNIVERSITY OF TRENTO - Italy
DEPARTMENT OF PHYSICS
Nanoscience Laboratory

BEC 



CONSIGLIO NAZIONALE DELLE RICERCHE
ISTITUTO NAZIONALE DI OTTICA


LABORATOIRE
DE PHOTONIQUE
ET DE
NANOSTRUCTURES

SIURO

erc
European
Research
Council

Sponsored by:

20th of April, 2016

SESSION III: POLARITONS - 9.00 - 12.00 room A218 (Povo 1) and 14.00 - 17.00 room B102 (Povo 2)

09:00 - 09:40 *Orbital edge states in a photonic honeycomb lattice* **Alberto Amo / Marijana Milicevic**, CNRS, France

09:40 - 10:20 *Engineering of Dirac points in 2D crystals* **Gilles Montambaux**, Université Paris-Sud, France

10:20 - 10:40 *Coffee break*

10:40 - 11:20 *Interacting quantum fluid in a polariton Z topological insulator* **Guillaume Malpuech**, Institut Pascal, France

11:20 - 12:00 *Cavity-induced gauge fields and cavity Rydberg polaritons* **Ariel Sommer**, University of Chicago

12:00 - 14:00 *Lunch break*

SESSION IV: EMERGING PLATFORMS

14:00 - 14:40 *Topological protection of defect states in the microwave regime* **Matthieu Bellec / Fabrice Mortessagne**, Université de Nice-Sophia Antipolis, France

14:40 - 15:20 *Anomalous transport in photonic mesh lattices* **Martin Wimmer**, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

15:20 - 16:00 *Tai-ji resonator. An integrated non-symmetrical reflector* **Fernando Ramiro Manzano**, Nanoscience Laboratory, University of Trento, Italy

Organized by:

UNIVERSITY OF TRENTO - Italy
DEPARTMENT OF PHYSICS
Nanoscience Laboratory

BEC 



CONSIGLIO NAZIONALE DELLE RICERCHE
ISTITUTO NAZIONALE DI OTTICA



SIURO



Sponsored by: