



The Galileo Galilei Institute for Theoretical Physics Arcetri, Florence

Emergent Geometries from Strings

and Quantum Fields June 12, 2023 - July 30, 2023

The workshop gathers experts on the main geometric structures emerging from string and field theories, like Poisson, noncommutative and generalized geometries and open/closed string inspired (non)geometries as well as super geometry and 3d quantum geometries. Topological field theories, T- and U-dualities, supersymmetric field theories, superstrings, string field theory is a non-exhaustive list of topics where these new geometric tools emerged and inspired new directions.

Organizing Committee:

Paolo Aschieri, Università del Piemonte Orientale and INFN Torino Francesco Bonechi, INFN Firenze Alberto Cattaneo, Zurich University Ron Donagi, University of Pennsylvania Pietro Antonio Grassi, Università del Piemonte Orientale and INFN Torino Catherine Meusburger, Erlangen-Nuernberg University Richard Szabo, Heriot-Watt University, Edinburgh

Topics:

- Homotopical Methods in Quantum Field Theory
- Noncommutative Geometry

Jo Galike Galily

Tentative Schedule: 1st week: Training Week 2nd week: Super Geometry 3rd week: Homotopical Methods in Quantum Field Theory and Quantum Geometry 4th week: Generalised and Higher Geometry 5th week: Noncommutative Geometry 6th week: Conference: Geometries from Strings and Fields







Contact persons: Francesco.Bonechi@fi.infn.it

GGI: http://www.ggi.infn.it/

