INdAM workshop

Spherical surfaces and related topics

Cortona, 20-24 June 2022

The workshop will be devoted to the study of surfaces with special metrics with singularities of conical type.

In particular it will focus on the case of spherical metrics, namely Riemannian metrics of curvature 1. Such metrics have been studied from many points of view, using tools coming from synthetic geometry, complex analysis and partial differential equations.

The aim of the meeting is to bring together people with different backgrounds to discuss recent developments, techniques and open questions in the areas of spherical surfaces with conical points, projective structures with singularities and their monodromy, solutions of the singular Liouville equation, polyhedral spherical surfaces, polygonal linkages.

Mini-courses

Chang-Shou Lin	(National Taiwan University)
Feng Luo	(Rutgers University)
Dmitri Panov	(King's College of London)

Research talks

Daniele Bartolucci	(Università di Roma "Tor Vergata")
Martin de Borbon	(King's College of London)
Alexandre Eremenko	(Purdue University)
Andrei Gabrielov	(Purdue University)
Matthew Gursky	(University of Notre Dame)
Michael Kapovich	(University of Califarnia - Davis)
Andrea Malchiodi	(Scuola Normale Superiore di Pisa)
Alessia Mandini	(Universidad Federal Fluminense)

Rafe Mazzeo   (Stanford University)
Guillaume Tahar   (Weizmann Institute of Science)
Gabriella Tarantello   (Roma "Tor Vergata")
Bin Xu   (University of Science and Technology of China)
Xuwen Zhu   (Northeastern University)

Organizing Committee

Francesca De Marchis   (Roma "Sapienza")
Feng Luo   (Rutgers University)
Rafe Mazzeo   (Stanford University)
Gabriele Mondello   (Sapienza Università di Roma)
Dmitri Panov   (King's College of London)