



The Abdus Salam  
International Centre  
for Theoretical Physics



# International Conference on Complex and Differential Geometry

## DESCRIPTION:

The aim of this conference is to fuel the interaction between researchers in different aspects of Real and Complex Differential Geometry. To this end, the meeting will include wide-ranging talks and more focused seminars by experienced specialist and young researchers, integrated by informal discussions and problem sessions.

## MORE DETAILS:

In recent years, we have witnessed striking new developments in Differential and Complex Geometry, while some fundamental questions remain still open. These fields are evolving rapidly as indicated by the recent breakthroughs on Poincare' conjecture and the existence of Kaehler-Einstein metrics on Fano varieties. One of the themes of this international conference is the search for special Hermitian metrics especially motivated by problems in Geometry and Topology and by Theoretical Physics models. The existence problem for constant scalar curvature metrics, the existence of holomorphic structures on the six-dimensional sphere, the complete classification of compact complex surfaces in class VII, and the classification of gravitational instantons are just a few examples of problems of current interest.

## TOPICS:

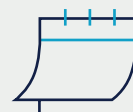
- Special Hermitian metrics
- Gravitational instantons and metrics of constant scalar curvature
- 4-dimensional geometry and topology
- Almost-complex and symplectic structures
- Geometric flows techniques

## SPEAKERS:

M. Albanese  
The University of Adelaide, Australia  
V. Apostolov  
Université du Québec à Montréal, Canada  
G. Besson  
Institut Fourier, Université Grenoble Alpes, Francia  
O. Biquard  
Institut de mathématiques de Jussieu, Francia  
R. Bryant  
Duke University, USA  
X. Chen  
University of Science and Technology of China, Cina  
C. Cifarelli  
Stony Brook University, USA  
A. Dranishnikov  
University of Florida, USA  
P. Gauduchon  
École Polytechnique, Francia  
G. Grantcharov  
Florida International University, USA  
U. Hamenstädt  
University of Bonn, Germania

H. Hein  
University of Münster, Germania  
N. Istrati  
University of Angers, Francia  
A. Otman  
Aarhus University, Danimarca  
T. Ozuch-Meersseman  
MIT, USA  
A. Sambusetti  
University of Roma La Sapienza, Italia  
S. Salamon  
King's College London, Regno Unito  
B. Santoro  
University of Münster, Germania  
A. Song  
California Institute of Technology (Caltech), USA  
S. Sun  
Zhejiang University, Cina  
C. Tonnesen-Friedman  
Union College, USA  
V. Tosatti  
New York University, USA

The conference is intended as an appreciation of the scientific contributions of Claude LeBrun and organized in partnership with the Clay Mathematics Institute.



**25 - 29 May 2026**



**Trieste, Italy**



**Deadline:**  
**31 January 2026**

## DIRECTORS:

C. Arezzo, ICTP, Italy  
L. F. Di Cerbo, University of Florida, USA  
A. Fino, Università di Torino, Italy  
M. Pontecorvo, Università di Roma 3, Italy

## LOCAL ORGANISER:

C. Arezzo, ICTP, Italy

## GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

## FURTHER INFORMATION:



Web: <https://indico.ictp.it/event/11144/>

E-mail: [smr4218@ictp.it](mailto:smr4218@ictp.it)

Female scientists are encouraged to apply.

