

# ICTP-IGAP Workshop on Deformation Theory II



**11 - 15 September 2023**  
**An ICTP Meeting**  
**Trieste, Italy**

Further information:  
<http://indico.ictp.it/event/10208/smr3874@ictp.it>

This is the second meeting of our group formed by mathematicians and physicists, focusing on deformation theory.

We will discuss a variety of topics:

- the classical theory of Kodaira about deformations of complex structures of varieties,
- the classical theory of and Kuranishi about deformations of vector bundles,
- their modern noncommutative counterparts,
- deformations of Landau–Ginzburg models,
- their role in both the symplectic and algebraic geometric sides of Homological Mirror Symmetry,
- and at each step we will investigate the interplay with Physics.

The program includes minicourses and talks by members of the group.

## Directors:

**E. GASPARIM**, Universidad Catolica del Norte, Chile  
**V. PRZYJALKOWSKI**, Steklov Institute Moscow and Laboratory of Mirror Symmetry, Russia

## Local Organiser:

**L. GOETTSCHKE**, ICTP, Italy

## Lecturers:

**K. FUKAYA**, Simons Center for Geometry and Physics, USA  
**M. GROSS**, University of Cambridge, UK  
**C. WOODWARD**, Rutgers University, USA

## Speakers:

**J. CRUZ MORALES**, Universidad Nacional de Colombia, Colombia  
**E. GASPARIM**, Universidad Católica del Norte, Chile  
**L. GOETTSCHKE**, ICTP, Italy  
**A. GOMEZ VILLEGAS**, University of Hamburg, Germany  
**S. GUKOV**, California Institute of Technology, USA  
**C. LAS HERAS**, Instituto de Física Teórica UAM-CSIC, Spain  
**R. PICCIOTTO**, University of Cambridge, UK  
**V. PRZYJALKOWSKI**, Steklov Institute and Laboratory of Mirror Symmetry, Russia  
**F. RUBILAR**, Universidad Católica de la Santísima Concepción, Chile  
**H. RUDDAT**, University of Stavanger, Norway  
**C. SAEMANN**, Heriot Watt University, UK  
**B. SZENDRÓI**, University of Vienna, Austria  
**B. SUZUKI**, Universidade de São Paulo, Brazil  
**C. VAREA**, Universidade Tecnológica Federal do Paraná, Brazil

## Grants:

There is no registration fee.



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