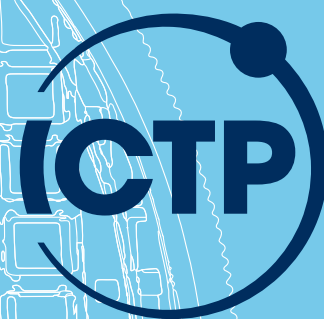


# Frontiers in Geometry and Topology Summer School



**1- 5 August 2022**  
**An ICTP Hybrid Meeting**  
**Trieste, Italy**

Further information:  
<http://indico.ictp.it/event/9705/>  
[smr3648@ictp.it](mailto:smr3648@ictp.it)

Organised in partnership with the Clay Mathematics Institute

The conference is intended as an appreciation of the contributions of Tomasz Mrowka

Geometry and Topology have seen spectacular recent developments, including the solution of classical problems. As a consequence, the established picture of how various parts of these areas fit together is evolving rapidly. On the topological side, among the topics that have progressed are: four-manifolds obtained as knot traces; knot concordance and homology cobordism, Stein fillings. On the Floer homology side, we have powerful new computational methods and new invariants of embedded graphs and webs.

On the more analytic side, we have new compactness results and potential new invariants.

## Topics:

- Interplay of 3-dimensional and 4-dimensional Topology
- Floer homology theories and associated invariants
- Khovanov homology
- Geometric and analytic aspects of gauge theoretic equations

## Directors:

P. FEEHAN, Rutgers University, USA  
L. NG, Duke University, USA  
P. OZSVATH, Princeton University, USA  
Y. RUAN, Zhejiang University, China  
P. SEIDEL, MIT, USA

## Local Organiser:

C. AREZZO, ICTP, Italy

## Speakers:

J. GREENE, Boston College, USA  
J. HOM, Georgia Tech, USA  
F. LIN, Columbia University, USA  
\*J. PARDON, Princeton University, USA  
T. WALPUSKI, HU Berlin, Germany

\*To be confirmed

## How to apply:

Online application:  
<http://indico.ictp.it/event/9705/>

Female scientists are encouraged to apply.

## Registration:

There is no registration fee.

## Deadline:

**28 February 2022**



The Abdus Salam  
International Centre  
for Theoretical Physics  
[www.ictp.it](http://www.ictp.it)  
Trieste, Italy

