



The Abdus Salam
International Centre
for Theoretical Physics



Conference on Recent Developments in Topological Quantum Field Theory (TQFT)

DESCRIPTION:

The conference will be held at the Beijing Institute for Mathematical Sciences and Applications (BIMSA). BIMSA is located in the Huairou District of Beijing which is famous for its nature and great scenery.

MORE DETAILS:

The aim is to bring together renowned local and international experts on modern aspects of topological quantum field theory for talks and discussions.

The range of covered topics will include:

- 1) Classification of TQFTs
- 2) Modular Tensor Categories
- 3) Subfactors
- 4) Gauge Theory aspects
- 5) Representation theory of Quantum Algebras
- 6) Vertex Operator Algebras
- 7) Quantum invariants of knots and manifolds
- 8) Topological twisting of supersymmetric field theories
- 9) Topological Quantum Computation
- 10) Infinite TQFT

The goal will be to give participants a global view on current developments in topological quantum field theory and encourage interactions and connections.

SPEAKERS:

J. ANDERSEN, University of Southern Denmark
 J. BROWN, University of Edinburgh, UK
 T. DIMOFTE, University of Edinburgh, UK
 S. GAROUFALIDIS, Max Planck Institute for Mathematics, Germany
 J. GU, Southeast University, China
 B. GUI, Tsinghua University, China
 S. GUKOV, California Institute of Technology, USA
 S. GUNNINGHAM, Montana State University, USA
 A. KAPUSTIN, California Institute of Technology, USA
 R. KASHAEV, University of Geneva, Switzerland
 Y. KAWAHIGASHI, University of Tokyo, Japan
 Z. LIU, Tsinghua University, China
 S. MING, BIMSA, China
 S. PARK, Harvard University, USA
 I. RUNKEL, University of Hamburg, Germany
 C. SCHWEIGERT, University of Hamburg, Germany
 M. YAMASHITA, Kyoto University, Japan



2 - 7 September 2024



**Beijing,
People's Republic of China**



**Deadline:
20 June 2024**

DIRECTORS:

B. HAGHIGHAT, Tsinghua University, China
 Z. LIU, Tsinghua University & BIMSA, China
 N. RESHETIKHIN, Tsinghua University, China & UC Berkeley, USA

ICTP SCIENTIFIC CONTACT:

P. PUTROV, 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:



E-mail: smr3958@ictp.it

Web: <https://indico.ictp.it/event/10496/>

Female scientists are encouraged to apply.

