



# CALL FOR PAPERS

**ICSGTP 2022**  
**Dec 13-14, 2022**  
**Rome, Italy**

The International Research Conference is a federated organization dedicated to bringing together a significant number of diverse scholarly events for presentation within the conference program. Events will run over a span of time during the conference depending on the number and length of the presentations.

ICSGTP 2022 : International Conference on Symplectic Geometry in Theoretical Physics is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Symplectic Geometry in Theoretical Physics. The conference will bring together leading academic scientists, researchers and scholars in the domain of interest from around the world. Topics of interest for submission include, but are not limited to:

Symplectic geometry in classical mechanics  
Symplectic geometry and mathematical physics  
Symplectic geometry and topology  
Symplectic geometry and second quantization  
Deformation theory and symplectic geometry  
Gromov-Witten invariants and quantum cohomology  
Floer homology, mirror symmetry, and string theory  
Lefschetz pencils, gauge theory, and low-dimensional topology  
Hamiltonian group actions and moment maps  
Contact homology and symplectic field theory

Symplectic techniques in dynamical systems  
Quantization of general poisson manifolds  
Deformations needed for the quantization of Nambu mechanics  
Quantization of intersection cardinalities  
Quantum shuffles  
New types of quantum groups and applications  
Quantum cohomology  
Strong homotopy Lie algebras  
Finite- and infinite-dimensional lie groups  
2D field theories and applications of NCG to gravity coupled with the standard model