



# CALL FOR PAPERS

**ICPTSOHC 2020**  
**Sep 23-24, 2020**  
**Vancouver, Canada**

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.

ICPTSOHC 2020 : International Conference on Perturbation Theory, Second-Order and Higher Corrections is

the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Perturbation Theory, Second-Order and Higher Corrections. 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:

Perturbation theory in quantum mechanics  
Approximate Hamiltonians  
Applying perturbation theory  
Limitations  
Large perturbations  
Non-adiabatic states  
Difficult computations  
Time-independent perturbation theory  
First order corrections  
Second-order and higher corrections  
Effects of degeneracy

Generalization to multi-parameter case  
Hamiltonian and force operator  
Perturbation theory as power series expansion  
Hellmann-Feynman theorems  
Correction of energy and state  
Effective Hamiltonian  
Time-dependent perturbation theory  
Method of variation of constants  
Method of Dyson series  
Strong perturbation theory