



Special Issue on Quantum Field Theory

Call for Papers

In theoretical physics, **quantum field theory** (QFT) is the theoretical framework for constructing quantum mechanical models of subatomic particles in particle physics and quasiparticles in condensed matter physics. QFT treats particles as excited states of the underlying physical field, so these are called field quanta. In quantum field theory, quantum mechanical interactions among particles are described by interaction terms among the corresponding underlying quantum fields. These interactions are conveniently visualized by Feynman diagrams, which are a formal tool of relativistically covariant perturbation theory, serving to evaluate particle processes. The goal of this special issue is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in area of **quantum field theory**.

In this special issue, we intend to invite front-line researchers and authors to submit original research and review articles on **quantum field theory**. Potential topics include, but are not limited to:

- Fields and radiation
- Single- and many-particle quantum mechanics
- Particle conservation and non-conservation
- QFT and gravity
- Renormalizability, gauge symmetry, and supersymmetry
- Topological quantum field theory

Authors should read over the journal's [For Authors](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).

Please kindly notice that the “**Special Issue**” under your manuscript title is supposed to be specified and the research field “**Special Issue – Quantum Field Theory**” should be chosen during your submission.

According to the following timetable:

Submission Deadline	October 15th, 2018
Publication Date	December 2018



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