Department of Physics

Overview

The collection's primary function is to support research and teaching programs in the area of Physics based on the research interests of the Department of Physics. In addition the collection supports affiliated researchers in Astrophysics, Condensed Matter Physics, Biological Physics, Quantum Physics and Optics, Materials Science and Engineering.

Subject areas supported

Subject areas include:

Material Science, and both Experimental and Theoretical Physics.

Research focus areas include:

Astrophysics, Biomorphic Materials, Biophysics, Ceramic Matrix Composites, Coherent Structures, Colloidal Crystallization and Colloidal Glass, Computational Physics, Condensed Matter Physics, Convective Thermal Turbulence, Dark Matter Particles, Energy and Entropy Cascades, Fabrication and characterization of nanostructured materials, Flow Dynamics, Fluid and Complex Fluids, Fluid Turbulence, Functional Materials, Gravitational Waves, Heat Transport, High Energy Physics, High-mass Resonances, Hydrodynamics, Interface Physics, Light Matter Interactions in Low Dimensional Systems, Materials Synthesis, Materials Characterization, Materials Engineering, Metal Matrix Composites, Multiphase Flow in Porous Medium, Nanomaterials, Neutrino Oscillation, Nonlinear Optics, Optics, Optical Properties of Semiconductors, Plasmonics, Plasma Spectroscopy, Physical Properties of Strongly Correlated Electron Systems, Proton-Proton Collision, Quantitative Biology, Quantitative Finance, Quantum Information, Quantum Physics, Relativity, Semiconductor Doping, Soft Matter and Functional Nanomaterials, Solar Cells, Sonoluminescence, Subatomic Particles, Star Formation, Surface Science and Materials Characterization, Surface Science and Nano Science, Ultracold Atoms and Molecules, Undercooled Liquids and Amorphous Metals

The faculty offers B.Sc., M.Sc., M.Phil., and Ph.D. degrees.

Intellectual Level

Collected in general

- Basic
- General Academic
- Advanced Academic
- Professional

Levels not collected

- Juvenile
- Popular

Formats collected

Formats and materials acquired, in general, electronic format is preferred.

- Conference proceedings
- Conference Monograph
- Festschriften
- Monographic series
- Periodicals
- Reference works
- Academic monographs
- Biography/Autobiography
- Classroom Anthology
- Collected Works
- Correspondence
- Curriculum Guide
- Field Guide
- Lab Manual
- Periodical Anthology
- Programmed Text
- Revised Dissertation

Formats and materials collected selectively or by request

- Audio-visual material
- Textbooks are generally excluded unless requested by faculty.

- Formats that are not otherwise specified above (such as cartoons, festschriften, ephemera, etc.) will only be considered upon special request on a case-to-case basis.

Languages collected

Materials collected are primarily in English and Chinese.

Materials in other languages will only be considered upon special request on a case-to- case basis.

Chronological and geographical focus

Current materials are emphasized.

Useful Links

Library Subject Guide: http://libguides.lib.cuhk.edu.hk/physics

Collection Development Policy: https://www.lib.cuhk.edu.hk/en/collections/policy/

Liaison Librarian

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