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Optics in the Institute of Physics, Chinese Academy of Sciences

The Institute of Physics, Chinese Academy of Sciences, was established in 1950 through the merging of two older institutes dating back to 1928. Now also known as the Beijing National Laboratory for Condensed Matter Physics, with more than 200 research staff and 600 graduate students, it conducts basic and applied research on condensed matter, optics, atomic and molecular physics, plasma physics, and theoretical physics, with cross-disciplines related to materials, information, energy and life science. International collaboration, involving 400 visits/events annually, is a vital facet of the institute.

Research in the Optical Physics Lab embraces novel optical materials, laser physics, photonic crystals, non-linear optics, strong field physics, ultrafast processes, quantum optics, and applications to biological systems. Facilities include pulsed ns, ps and fs lasers, with powers up to terawatts, tunable cw lasers, and so forth, with wavelengths ranging from x-ray to THz. Light detection instruments include uv, ir, and visible spectrometers, boxcars, single-photon detectors, broadband oscilloscopes, and other electronic equipment.

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