



Frontiers of Laser Physics and Quantum Optics: Proceedings of the International Conference on Laser Physics and Quantum Optics


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Since the advent of the laser about 40 years ago, the fields of laser physics and quantum optics have evolved into a major disciplines. The early studies included optical coherence theory and semiclassical and quantum mechanical theories of the laser. More recently many new and interesting effects have been predicted. These include the role of coherent atomic effects in lasing without inversion and electromagnetically induced transparency, atom optics, laser cooling and trapping, teleportation, the single-atom micromaser and its role in quantum measurement theory, to name a few. The International Conference on Laser Physics and Quantum Optics was held in Shanghai, China, from August 25 to August 28, 1999, to discuss these and many other exciting developments in laser physics and quantum optics. The international character of the conference was manifested by the fact that scientists from over 13 countries participated and lectured at the conference. There were four keynote lectures delivered by Nobel laureate Willis Lamb, Jr., Profs. H. Walther, A.E. Siegman, and M.O. Scully. In addition, there were 34 invited lectures, 27 contributed oral presentations, and 59 poster papers. We are grateful to all the participants of the conference and the contributors of this volume.

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