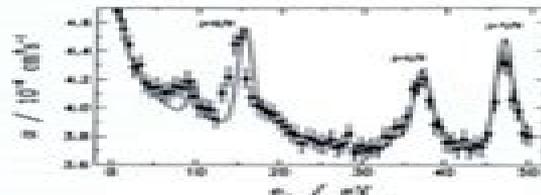


## The Physics of Electronic and Atomic Collisions

Lasers and other experimental tools such as storage rings for highly-charged ions, cluster beams, narrow-band synchrotron radiation and multi-detection devices are ensuring continuous progress in the field of electronic and atomic collisions. This was well documented by many invited and contributed papers at last year's 18th International Conference on the Physics of Electronic and Atomic Collisions illustrating the rôle played by lasers. Lasers are now used to prepare beams of polarized excited atoms, ions, and molecules, to detect atomic and molecular reaction products with unprecedented selectivity and sensitivity, and to study multiphoton and strong-field effects in ionization and detachment.

The European Research Conference in Physics — Electronic and Atomic Collisions: Processes at Low and Ultralow Energies (Grens, France; 10-15 September 1994) will highlight the trend towards exploiting new techniques by considering in greater detail collisions between: electrons and molecules; atoms, molecules and ions in beams, traps and low-temperature reactors; electrons and ions in merged beams and in storage beams; laser-cooled ions. But one should not forget that the field of electronic and atomic collisions spills over into many other areas. The four plenary lectures presented at the 18th ICPEAC gave surveys of important sub-fields. Ben Motteelson (Copenhagen) addressed "Shell effects in clusters". Clusters of atoms and molecules function as a bridge between the gas phase and the solid state and are actively studied using spectroscopic and collisional methods. Referring mainly to recent experimental results on shell effects in metal clusters, Motteelson related the "bunchiness" of the single-particle spectrum to shell structure and pointed out analogies to nuclear shell effects. Fritz Bosch (GSI Darmstadt) highlighted the impressive advances in and with ion-storage rings recently achieved at several facilities, notably ESR (GSI Darmstadt), TSR (Heidelberg), ASTRID (Aarhus), and CRYRING (Stockholm). In his lecture on "Atomic physics using storage cooler rings" he showed how electron and laser cooling of heavy ions leads to brilliant monochromatic beams of highly-charged ions which can be used for new kinds of precision experiments in atomic physics, both in spectroscopy and collisions. Many new results have already been obtained, extending from radiative and dielectronic recombination (see figure) to



to allow the structure of heavy low-electron systems to be tested. The figure shows the recombination rate for Li-like  $Au^{78+}$  ions, as a function of the centre-of-mass detuning energy, as measured at the SIS-ESR complex at GSI, Darmstadt (the continuous line is a theoretical curve). Figure courtesy of F. Bosch, GSI, Darmstadt.

electron capture, x-ray spectroscopy, tests of relativity, and atomic astrophysics.

The third plenary lecture was devoted to the theory of electron collisions with atoms, ions and molecules. Phil Burke (Belfast), one of the leaders in this field, demonstrated the continuous advances in calculating elastic and inelastic processes (including ionization) in electron-atom and electron-ion collisions which are important in gaseous discharges, fusion plasmas and astrophysics. Substantial progress has been made in the treatment of relativistic effects for heavier systems and in spin-dependent scattering. Electron-molecule scattering theory successfully tackles the problems associated with electronically excited final states and the rôle of nuclear motion

and non-adiabatic effects in dissociative and vibrational excitation. Spin-dependent effects in electron-molecule scattering present a challenge for the future.

Kate Kirby (Cambridge, USA) reviewed "Atmospheric physics, collision physics, and global change", demonstrating that studies of electronic and atomic collisions can help provide partial answers in developing more reliable models of the atmosphere. Theory presently cannot predict the amount of ozone ("missing ozone problem"), and pathways for increased ozone production are being investigated. One of the great challenges in atmospheric modeling is to predict the influence of clouds.

H. Hotop, Kaiserslautern

### 18th ICPEAC

The 18th International Conference on the Physics of Electronic and Atomic Collisions (ICPEAC) represents a biennial series of conferences dedicated to the fields of electronic and atomic collisions and related areas of atomic and molecular physics. In particular, it deals with the interactions between atoms, ions, molecules, electrons, positrons and photons. The 18th ICPEAC (21-27 July 1993) took place in the beautiful and well-situated Concert Hall in Aarhus and was organized in an excellent way by members of the Institute of Physics, Aarhus, with Torild Andersen and Bent Fastrup serving as Local Co-Chairs. There were about 730 participants from 42 countries, of which about 200 were students or postdocs. The programme included 4 plenary lectures, 26 reviews, 36 progress reports, and 10 oral presentations of selected contributed papers (hot topics). The abstract booklet contains 545 contributed papers, which were presented as posters during the afternoons in the Fidehuset. Both the lectures and the poster sessions tested that the field represents a lively and innovative area of research. The proceedings (ISBN 1-56395-290-X) were published by the American Institute of Physics and are available from AIP Conference Proceedings, AIP, 500 Sunnyside Blvd., Woodbury, NY 11797-2999, USA. The 20th ICPEAC will be held in Whistler, BC, Canada (26 July - 1 August 1995; contact: Int. Conf. Services, 604-850 West Hastings St., Vancouver, BC, V6C 1E1, Canada; tel.: +1-604-681 21 53; fax: +604-681 10 49) and the 21st ICPEAC in Vienna (July/August 1997; contact: H. Winter, Inst. f. Allgemeine Physik, TU Wien, Wiedner Hauptstrasse 8-10, A-1040 Vienna; tel.: +43-1-588 01; fax: +43-1-58 42 03; winter @ eapv38.tuwain.ac.at).

### ERC

#### Electronic & Atomic Collisions

The European Research Conference in Physics — Electronic and Atomic Collisions: Processes at Low and Ultralow Energies (Grens, France; 10-15 September 1994) is organized by the European Science Foundation in association with the Electronic and Atomic Collisions Section of the EPS Atomic and Molecular Physics Division, with H. Hotop, the Section Chair, acting as the Conference Chair (participation limited to 100). For information, contact: J. Hendekovic, ESF, 1, quai Lezay-Marnésia, F-67080 Strasbourg Cedex (tel.: +33 (-) 88 76 71 35, fax: +33 (-) 88 36 69 67).

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# Electronic And Atomic Collisions

**JS Bruner**



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