

1. Record Nr.	UNISA996466798403316
Titolo	Nuclear Physics with Electromagnetic Interactions [[electronic resource] ] : Proceedings of the International Conference, Held in Mainz, Germany, June 5-9, 1979 // edited by H. Arenhövel, D. Drechsel
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1979
ISBN	3-540-35013-6
Edizione	[1st ed. 1979.]
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 108
Disciplina	535.2 537.6
Soggetti	Optics Electrodynamics Lasers Photonics Classical Electrodynamics Optics, Lasers, Photonics, Optical Devices
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	The role of electromagnetic interactions in nuclear physics -- Nuclear magnetic properties and electron scattering -- Inelastic electron scattering at low momentum transfer -- Nuclear structure investigations with inelastic electron scattering -- Nuclear magnetization density from electron scattering -- Proton and neutron densities from elastic electron scattering -- Systematics of nuclear radii from elastic electron scattering and muonic X-ray measurements -- Elastic electron scattering at large momentum transfer -- Theories of the nuclear ground state beyond hartree-fock -- High duty-cycle accelerators and new experimental possibilities -- Coincidence experiments at stanford -- Momentum and energy distributions from (e,e'p) reactions -- Photoneutron cross-section measurements in heavy nuclei from 30 to 140 MeV -- Photoabsorption and sum rules -- Electromagnetic sum rules in nuclei -- Operating experience with the second illinois microtron using a superconducting linac -- Status report

on the mainz microtron project -- Design of a proposed 130 MeV superconducting recycolotron for electrons -- ALFA, feasibility study of an electron pulse stretcher to increase the duty factor of the Frascati linac -- Performance of the superconducting recycolotron -- The next accelerator at Sendai -- Max, a continuous electron accelerator system -- Present and future of the Saclay Electron Linac -- One more project for an electron accelerator -- Status report on the 500 MeV, high duty factor electron scattering facility under construction at Amsterdam -- Characteristics and performance of a new magnet system for 180° electron scattering -- New projects at the Bates LINAC -- A new monochromatic and polarized photon beam at Frascati -- Large-amplitude collective nuclear motion -- Nuclear Studies with Tagged Photons -- Electromagnetic Excitations of Giant Resonances -- Elastic and Nuclear Raman Scattering of Photons -- Study of the giant resonances with capture reactions -- Study of the giant resonances with virtual and real photons -- Study of giant resonances with hadrons -- Theoretical aspects of pion photo- and electro-production -- Pion photoproduction near threshold -- Inverse pion photoproduction -- Photo-excitation of light nuclei in the  $^{12}C(^{12}C)$  region -- Photonuclear experiments at intermediate energies -- Coincidence experiments at the Bonn 500 MeV synchrotron -- Present status of photonuclear reactions in light nuclei -- Photodisintegration of  $^3H$  and  $^3He$  -- Electrodisintegration of  $^3H$  and  $^3He$  -- Selected topics in the trinucleon bound-state problem -- Isobar propagation in nuclei and collective effects -- Mesonic and relativistic effects in the nuclear electromagnetic interaction -- Isobar configurations in nuclei and short range correlations -- Parity violation in deep inelastic electron scattering -- Outlook and future prospects.

---