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| Nota di contenuto       | Cover; Title; Copyright; Contents; Editors' Preface; Session I - Chairman: P. Goldhammer; I.A. Progress in the sd-Shell; I.B. New Applications of Hartree-Fock Calculations to Nuclei with $20 < A < 60$ ; I.a. High-Spin States in Al27 and the Nuclear Structure of Nuclei Around Mass; I.b. The Resolution of Angular Correlation Ambiguities for High Spin States Using a 3 Ge(Li) Detector Compton Polarimeter; Session II - Chairman: P. M. Endt; II.A. Nuclear Structure Calculations with Realistic Two-Body Forces; II.B. Role of Nuclear Coexistence in Shell Model Spectral Difference Calculations<br>II.a. Isoscalar Magnetic Moments in Light Nuclei Session III - Chairman: J. D. Fox; III.A. A Pedestrian Approach to the Intermediate Structure in Photonuclear Reactions in Light Nuclei; III.B. The Fine Structure of Analog States; Session IV - Chairman: E. K. Warburton; IV.A. Nuclear Lifetimes through the Use of the Crystal Blocking Technique; IV.B. Doppler Shifts with Gas Backing; IV.a. Pulsed Beam Direct Timing Lifetime Measurements Using Ge(Li) Detectors; Session V - Chairman: L. Brown; Introductory Remarks by the Chairman; V.A. Polarized Beams in Nuclear Spectroscopy; V.B. Band Structure of Ne20; List of Participants |
| Sommario/riassunto      | In this report of the proceedings of the Fifth Symposium prominent world physicists give an account of the status of the understanding of nuclear structure in the mass region from $A=20$ to $A=60$ . Ten invited papers cover various aspects of nuclear structure from both the  |

theoretical and the experimental points of view. Additionally, four short papers presenting formal comments are included, along with the edited discussions following the readings of the papers. Two topics are treated in particular: the long-awaited application of polarized beams to the study of nuclear structure is reviewed.

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