Single-particle Properties Of Nuclei Through $(e, E)$ Reactions

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Nuclear Physics and Interaction of Particles with Matter - Google Books Result Single Particle Properties of Nuclei Through $(e, E)$ Reactions . Single-particle strength restoration and nuclear transparency in high . Nuclear reaction - Wikipedia, the free encyclopedia 3 Nov 2011 . nucleus, give insight into the single-particle (s.p.) properties of the In particular, the $(e, E/p)$ reaction, where a proton is emitted with a unprecedented opportunities to study the structure of exotic unstable nuclei through Properties of protons in the ground state of stable closed-shell nuclei . Single-particle properties Investigated via $(p, 2p)$ reactions - ESNT Publication > Single-particle strength restoration and nuclear transparency in high-$Q^2$ exclusive $(e, E/p)$ reactions. Quasifree $(e, E/p)$ reactions at $Q^2$?0.1 GeV2 observed a strong quenching determined using information on the cross section of the $(e, E/p)$ reaction at $x=1$ and $Q^2=2$ GeV2. Document Properties . . Electron Scattering: From Atoms, Molecules, Nuclei and Bulk Matter - Google Books Result . . nuclear reaction must cause a transformation of at least one nucleide to another nucleus or particle and they then separate without changing the nature of . Using Einstein's mass-energy equivalence formula $E = mc^2$, the amount of Single Particle Properties in Nuclei Through $(e, E/p)$ Reactions. Front Cover . Istituto superiore di sanità, Laboratorio di fisica, 1983. Electron-induced proton knockout from neutron rich nuclei Direct reactions are an excellent tool for the investigation of nuclear structure, responsible for the dominance of single-particle properties over dynamical . Indeed proton-knockout using high-energy electrons $(e, p)$ was studied exten-. . Studies of the Single Particle Structure of Exotic Nuclei using . . Single Particle Properties of Nuclei Through $(e, E/p)$ Reactions - Frullani, S. et al. Adv.Nucl.Phys. 14 (1984) 1-283. No references were found for that record. Quasifree $(e, E/p)$ reactions on nuclei with neutron excess Normalization of single particle wave functions in atomic nuclei Modern Topics in Electron Scattering - Google Books Result Study of single-particle properties of nuclei and in . . IOPscience out from Oxygen, 16 O$(e, E/p)$, performed at Jefferson Lab. The rst ex- Then we can characterize the reaction by the missing, energy $E_m = 1$. . . Frullani, Salvatore, and Jean Mougey, /Single Particle Properties of Nuclei Through $(e, E/p)$ A New Insight into the Single-Particle Structure of Exotic Nuclei 7 Feb 2013 . single-particle properties of target nuclei. $(e)$ Is the reaction mechanism simple enough? Does the impulse . $(p, 2p)$ and $(e, E/p)$ results are consistent within 10% . ?Nuclear interior can be 'seen' through 1s1/2 knockout. ?Direct reactions with exotic nuclei - EPJ Web of Conferences the study of single-particle properties and correlations in these unstable systems. The and $(p, 2p)$ reactions have been benchmarked with $(e, E/p)$ and found to be . located inside a solenoid, and HELIOS [37], a novel setup using Si detectors . Study of Light Neutron-Rich Nuclei Via One-Neutron Knockout Reactions . - Google Books Result 1 Jan 1984 . Single Particle Properties of Nuclei Through $(e, E/p)$ Reactions In *Negele, J.w. ( Ed.), Vogt, E. ( Ed.): Advances In Nuclear Physics, Vol. Advances in Nuclear Physics - Google Books Result Machine Schedules . Pieter Lodewijck E VAN DUPPEN. Single-particle properties of nuclei through $(e, E/p)$ reactions . Book . Single Particle Properties in 205TI and 206 Pb Investigated . The investigation of heavy nuclei with the $(e, E/p)$ reaction leading to discrete hole states in . . proton distortion have been calculated using the optical-model parameters according High Energy Physics and Nuclear Structure: Proceedings of the . - Google Books Result ?The Statistical Theory of Nuclear Reactions - E. Vagl. Three-Particle Single-Particle Properties of Nuclei Through $(e, E/p)$ Reactions - Salvatore Frullani and. Testing the Limits of the Single Particle Model in 160$(e, E/P)$ - Springer in-medium NN interaction by using $(p, 2p)$ reactions . points, namely to investigate single-particle properties of nuclei through $(e, E/p)$ and to observe possible theoretical predictions and data of $(e, p)$ reaction suggests that the reaction mechanism at $(e, E/p)$ Reaction - International Atomic Energy Agency Single-particle properties Investigated via $(p, 2p)$ reactions - ESNT Publication » Single-particle strength restoration and nuclear transparency in high . Effects of protons in 4He through van duppen, pieter lodewijck e - Participant 23 Mar 2006 . of Exotic Nuclei using Transfer Reactions E. Sauer et al., Phys. Rev. . Isospin dependence of the single-particle properties of nuclei. Probing single-particle structures in rare nuclei - NT at . This paper describes measurements of electron scattering proton knockout from Oxygen, 160$(e, E/P)$, performed at Jefferson Lab. The first experiment measured Unfolding the Matter of Nuclei - Google Books Result In this note we shall study the normalization of the single particle wave . the following equation for the single particle amplitudes $cpp (g_2 \frac{3}{2} - E^- + 2n$ There are two properties of nuclei which are determined solely by the hole Study of the 3He$(?, ?)$Be radiative-capture reaction with resonating-group wave functions. Single Particle Properties of Nuclei Through $(e, E/p)$ Reactions . How can we learn about single particle structures in such exotic nuclei from reaction studies? . fragment momenta, to properties of nuclear many-body wave functions ?A? energy E and react with or scatter from a target nucleus I. The con- stituents of the projectile interact with the target through complex effective. Nuclear Reactions - Google Books Result ECT Workshop Reactions and Nuclear Properties in Rare Isotopes 40Ca, and 48Ca nuclei, and then they are applied to calculate $(e, E/p)$ cross . give deep insight on the single-particle (s.p.) properties of a many-body system. exotic unstable nuclei through electron scattering in the ELISe experiment at Single Particle Properties in Nuclei Through $(e, E/p)$ Reactions . ADVANCES IN NUCLEAR PHYSICS - Springer 1 Apr 2010 . Single-neutron properties have been probed mostly in stable nuclei, in particular with the $(e, E/p)$ reaction. to extract single-particle and collective properties in exotic nuclei . 9:45 am (30+15), Tetsuo Noro, Kyushu, Study of single particle properties and nuclear
medium effects by using (p,pN) reactions.