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relativistic, relaxation, and correlation effects in spectra ... the effects of relativity and the relaxation of ... an atomic state function asf of the system can be ...

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... spectroscopy of autoionization states of atomic systems ... spectroscopy of autoionization states of atomic ... relativistic effects are taken into account using ...

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... in the complex photoelectron spectra of these systems. ... is a relativistic effect, these jt ... mechanics of atomic spectra ...

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proc. phys. soc., 1963, vol. 81 nuclear and relativistic effects in atomic spectra: by a. p. stone st. stephen's college, delhi, india ms. received 4th december 1962

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relativistic effects in atoms and ... chapter 2 the origin of relativistic effects of atomic orbitals 45 ... because in those systems the electrons move very fast ...

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vol. 12, 1979 relativity and the periodic system 277 indium to i for thallium or from iv for tin to i1 for lead? the three main effects methods of calculation.

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the closed-shell coupled cluster method has been applied to the ... in atomic systems, ... charged nucleus enhances the relativistic effects. 4.3. 3-electron system.

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the relativistic effects can be analysed in ... been investigated in many atomic systems and as will be ... spectroscopy and the relativistic and ...

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other types of relativistic effects on nmr parameters are ... special relativity in nmr spectroscopy. ... atomic systems where relativistic effects ...

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... k. s. pitzer. relativistic effects in chemical systems. ... effect : a relativistic effect causing ... the zeeman effect. the dark spectra lines in the ...

ON THE RELATIVISTIC EFFECT OF THE HEAVY IONS WITH ONE-ELECTRON

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on the relativistic effect of the ... of atomic systems, in relativistic conditions due ... the energy spectrum with relativistic correction and ...

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... relativistic energy approach to cooperative ... spectroscopy of atomic/nuclear systems opens new ... relativistic effects in spectra of atomic ...

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what is the relativistic effect? ... give rise to characteristic spectra. ... the system is no longer in thermal equilibrium.

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forward method is probably limited to the spectra of molecular systems with ... relativistic effects in ... corresponds to a is nonrelativistic atomic ...

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perspective: relativistic effects ... and other actinide systems. ... served in atomic spectroscopy. relativistic effects need not

RELATIVISTIC QUANTUM CHEMISTRY OF HEAVY IONS AND HADRONIC ...

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... relativistic quantum chemistry of heavy ions and hadronic atomic systems: spectra and energy shifts; ... exchange-correlation and radiative effects. ...

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atomic spectra 1 atomic spectra ... atomic spectra and atomic structure, ... split by relativistic and intrinsic spin effects, ...

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nuclear and relativistic effects in atomic spectra: authors: stone ... the electronic hamiltonian is obtained in the centre-of-mass system of the ... abstract text:

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... w. c. ermler; k. s. pitzer. relativistic effects in chemical systems. annual review of physical ... neon lighting is a direct application of atomic spectroscopy.

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relativistic and ultrashort quantum dynamics atomic systems, ... relativistic effects are very dramatic for ati and hhg processes based on the three ...

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... relaxation, and correlation effects in spectra of cu ii; ... the influence of relativistic, relaxation, and correlation effects on the low ... atomic energy ...

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... often used in the past as the basis for relativistic calculations of the spectra ... of relativistic and qed effects in atomic ... systems, starting from the ...