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relativistic quantum chemistry ... in order to explain the fine structure of atomic spectra, ... w. c. ermler; k. s. pitzer. relativistic effects in chemical systems.

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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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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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the electronic hamiltonian for a general atom in the center-of-mass system is obtained as far as terms in $1/c^2$ and m/m_0 by reducing a relativistic wave ...

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

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the effects of relativity in materials science: core electron spectra ... relativistic effects on ... in atomic systems there are two standard ways to ...

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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 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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application of second?quantization methods to calculations involving relativistic atomic states is shown to be extremely straightforward and to provide a ...

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relativistic and correlation effects in the 21.2-ev photoemission spectrum of atomic lead* s. ... relativistic effects were obvious, ...

RELATIVISTIC EFFECTS IN SPECTRA OF ONE- AND TWO-ELECTRON ...

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... perturbation theory is developed for one- and two-electron systems with ... the effects of relativity in ... relativistic effects in spectra of ...

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... relativistic jahn-teller effects in the photoelectron spectra of ... complex photoelectron spectra of these systems. ... spectroscopy; relativistic ...

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angular momentum coupling in atoms is of importance in atomic spectroscopy. angular momentum coupling of ... in atomic spectra ... relativistic 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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relativistic effects can strongly influence the chemical and ... single-molecule surface-enhanced raman spectroscopy ... relativistic effects in chemical systems

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

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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... atomic systems, ... the role of relativistic effects during the under ... way to detect the radiation reaction effects in the spectra of low ...

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?relativistic and correlation effects in ... the enhancement of relativistic effects in heavy atoms ... relativistic effects in the spectra of atomic systems, ...

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our studies of hydrogen-like atoms revealed that the spectrum of ... 2-fold degeneracy. however, although the non-relativistic schrödinger ... atomic structure: ...

IN?UENCE OF RELATIVISTIC TERMS IN THE SPECTRA OF HYDROGEN ...

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in?uence of relativistic terms in the spectra of hydrogen atom highly ... for the relativistic effect of ... of relativistic terms in the spectra of ...

PERSPECTIVE: RELATIVISTIC EFFECTS - MOLPHYS

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

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atomic spectra compiles papers on the highlighted developments in the atomic spectra. ... earth spectra 4.4 relativistic effects in ... spectra of atomic systems ...

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relativistic calculations of x-ray photoelectron spectra ... relativistic calculations of x-ray spectra, ... of atomic x-ray spectra, including relativistic ...