

# Autoionization levels of helium isoelectronic sequence and applications of a time-dependent perturbation method.

## - - The Accurate Calculation of Atomic Properties by Numerical Methods



Description: -

- Autoionization levels of helium isoelectronic sequence and applications of a time-dependent perturbation method.

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To obtain an X-ray spectrum over a broad range, the entire spectrometer was rotated back and forth about the center of the Rowland circle, in effect moving the EBIT along the Rowland circle. We have located altogether 18 of these resonances below this threshold as well as determined the widths for all of them, including the widths of the high-lying ones. The tritium extraction system can be placed on one side of the transporter corridor in the pit adjacent to the test module port.

### Time

The total DR rate coefficient is derived as a function of electron temperature. Possibly only a direct numerical solution of the equations will be sufficiently accurate for successful applications of the TDHF approximation to complex systems.

### Time

The 4293-eV decay of the  $3\text{P}0$  level occurs only through the hyperfine interaction and is blended with line  $\gamma$ . Radial wave functions corresponding to both CA and term-specific Hartree-Fock potentials were calculated; in the case of  $4f$ , only the  $4f1\text{P}$  results differed significantly from the CA, which were consequently used for all terms other than  $1\text{P}$ . Recently, a number of extensions of the time-dependent Hartree-Fock TDHF method have been proposed to handle the general open-shell system.

**Variational Calculations of Energies of the  $(2snl)1,3\text{L}\pi$  and  $(2pnl)1,3\text{L}\pi$  Doubly Excited States in Two**

Direct ionization cross sections have been calculated to check the validity of the method.

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