

# NEW METHOD FOR TREATING SLOW MULTIELECTRON, MULTICENTER ATOMIC COLLISIONS<sup>1</sup>

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The method of hidden crossings is generalized to treat multielectron systems utilizing molecular Hartree-Fock and configuration interaction methods, extended into the plane of complex internuclear distance. Diabatic promotion of low lying states to the continuum is a two-electron, two-center system via a series of localized transitions is shown for the first time. Excellent agreement with experiments is found regarding single ionization in 50 eV to 1 keV H + H collisions.

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