ADAS Subroutine adwrd2

FUNCTION ADWRD2 (N, L, L1)

INTEGER

IMPLICIT REAL*8(A-H,O-Z) С C VERSION OF DWRD2 FOR USE BY ADASRRC WHICH MAKES USE OF ADWLPOL C ****** H.P. SUMMERS, JET 30 JUNE 1992 ********************* С C PURPOSE: CALCULATES SQUARE OF BOUND FREE DIPOLE INTEGRAL IN C DISTORTED WAVE APPROXIMATION. С C THIS FUNCTION ACTS AS AN INTERFACE BETWEEN GIIDW AND DWLPOL. C ATOMIC STRUCTURE AND POTENTIAL DATA IS BROUGHT IN VIA LABELLED C COMMON BLOCK /DWPARS/ C ****** H.P. SUMMERS, JET 19 AUGUST 1985 ******************* C INPUT С N=PRINCIPAL QUANTUM NUMBER OF BOUND ELECTRON С L=ORBITAL QUANTUM NUMBER OF BOUND ELECTRON С L1=ORBITAL QUANTUM NUMBER OF FREE ELECTRON C OUTPUT С ADWRD2=SQUARED RADIAL DIPOLE INTEGRAL C -----C-----C UNIX-IDL PORT: C AUTHOR: WILLIAM OSBORN (TESSELLA SUPPORT SERVICES PLC) C DATE: 4TH JULY 1996 С C VERSION: 1.1 DATE: 04-07-96 C MODIFIED: WILLIAM OSBORN - FIRST VERSION. C VERSION: 1.2 DATE: 16-05-07 C MODIFIED: Allan Whiteford С - Modified comments as part of subroutine documentation С procedure. С

L1,

N

L,