

ADAS Subroutine etred

FUNCTION ETRED(KTYPE , E , T , C)

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C
C ***** FORTRAN 77 FUNCTION: ETRED *****
C
C PURPOSE:  TO CALCULATE THE REDUCED ENERGY FOR FOUR TYPES OF
C           TRANSITION
C
C CALLING PROGRAM:  VARIOUS ADAS101 CODES
C
C FUNCTION:
C
C INPUT:      (R*8)   E      =  TRANSITION ENERGY (Eij)
C             (R*8)   T      =  COLLIDING ELECTRON ENERGY AFTER
C                               EXCITATION (Ej)
C             (R*8)   C      =  ADJUSTABLE SCALING PARAMETER
C             (R*8)   TL     =  Ej/Eij
C             (I)    KTYPE  =  TRANSITION TYPE
C                               1 ELECTRIC DIPOLE
C                               2 NON ELECTRIC DIPOLE
C                               3 SPIN CHANGE
C                               4 OTHER
C
C OUTPUT:     (R*8)   ETRED  =  REDUCED ENERGY
C
C
C ROUTINES:  NONE
C
C DATE:      21/06/95 VERSION 1.1
C AUTHOR:    A.LANZAFAME (UNIV. OF STRATHCLYDE) & D.H.BROOKS
C
C-----
C           INTEGER          KTYPE
C           REAL*8          C,          E,          T
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