

ADAS Subroutine etredinv

FUNCTION ETREDINV(IXTYP , EIJ , DGEX , C)

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C
C ***** FORTRAN 77 FUNCTION: ETREDINV *****
C
C PURPOSE:  TO CALCULATE THE ELECTRON ENERGY FROM THE REDUCED ENERGY
C           FOR FOUR TYPES OF TRANSITION
C
C CALLING PROGRAM:
C
C FUNCTION:
C
C INPUT:    (R*8)   EIJ   =  TRANSITION ENERGY (Eij)
C           (R*8)   DGEX  =  REDUCED ENERGY
C           (R*8)   C     =  ADJUSTABLE SCALING PARAMETER
C           (R*8)   TL    =  Ej/Eij
C           (I)     IXTYPE =  TRANSITION TYPE
C                               1 ELECTRIC DIPOLE
C                               2 NON ELECTRIC DIPOLE
C                               3 SPIN CHANGE
C                               4 OTHER
C
C OUTPUT:   (R*8)   ETREDINV=  ELECTRON ENERGY
C
C ROUTINES: NONE
C
C DATE:     21/06/95 VERSION 1.1
C AUTHOR:   DAVID.H.BROOKS (UNIV. OF STRATHCLYDE)
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INTEGER          IXTYP
REAL*8           C,          DGEX,          EIJ
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