

## ADAS Subroutine axetrdv

FUNCTION AXETRDV( IXTYP , EIJ , DGEX , C )

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C  
C \*\*\*\*\* FORTRAN 77 FUNCTION: AXETRDV \*\*\*\*\*  
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 = E<sub>j</sub>/E<sub>ij</sub>  
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) AXETRDV= ELECTRON ENERGY  
C  
C  
C ROUTINES: NONE  
C  
C WRITTEN: CONVERSION OF ETREDINV BY A.LANZAFAME & D.H.BROOKS BY  
C HUGH P. SUMMERS, UNIVERSITY OF STRATHCLYDE  
C TEL. 0141-553-4196  
C  
C DATE: 24/11/96 VERSION 1.1  
C  
C MODIFICATION HISTORY:  
C  
C VERSION: 1.1 HUGH SUMMERS 24/11/96  
C MODIFIED: FIRST RELEASE  
C  
C-----

INTEGER IXTYP  
REAL\*8 C, DGEX, EIJ