

ADAS Subroutine dasumd

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      SUBROUTINE DASUMD ( NDREP , NDPRT , NDT ,  
&                       IPI   , IPF   , IPFS ,  
&                       MAXTM , IREPMAX , IREP , DRMF ,  
&                       DRMS  
&                       )
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C  
C ***** FORTRAN 77 SUBROUTINE: DASUMD *****  
C  
C VERSION: 1.0  
C  
C PURPOSE: TO SUM BADNELL DIELECTRONIC RATE COEFFICIENT DATA OVER THE  
C REPRESENTATIVE SET TO GIVE ZERO DENSITY TOTAL RATE  
C FROM SATELLITE LINES.  
C  
C         BASED ON B4SUMD  
C  
C CALLING PROGRAM: DADATA  
C  
C INPUT:  
C INPUT : (I*4) NDREP   = MAXIMUM NUMBER OF REPRESENTATIVE LEVELS  
C INPUT : (I*4) NDPRT   = MAXIMUM NUMBER OF PARENT STATES  
C INPUT : (I*4) NDT     = MAXIMUM NUMBER OF TEMPERATURES  
C INPUT : (I*4) IPI     = INITIAL PARENT  
C INPUT : (I*4) IPF     = FINAL PARENT  
C INPUT : (I*4) IPFS    = SOIN SYSTEM  
C INPUT : (I*4) DRMF( , , ) = BADNELL DIELECTRONIC DATA (CM3 S-1)  
C                               1ST.DIM: REPR. N-SHELL INDEX  
C                               2ND.DIM: INITIAL PARENT INDEX  
C                               3RD.DIM: FINAL PARENT INDEX  
C                               4TH.DIM: SPIN SYSTEM INDEX  
C                               5TH.DIM: TEMPERATURE INDEX  
C INPUT : (I*4) NBT     = NO. OF TEMPERATURES  
C INPUT : (I*4) IREPMAX = NO OF REPRESENTATIVE LEVELS  
C INPUT : (I*4) IREP( ) = SET OF REPRESENTATIVE LEVELS  
C  
C OUTPUT: (R*8) DRMS( ) = SUMMED DR RATE COEFFICIENTS (CM3 S-1)  
C                               1ST.DIM: INITIAL PARENT INDEX  
C                               2ND.DIM: FINAL PARENT INDEX  
C                               3RD.DIM: SPIN SYSTEM INDEX  
C                               4TH.DIM: TEMPERATURE INDEX  
C  
C         (I*4) NREP     = GENERAL LEVEL INDEX  
C         (I*4) IN      = GENERAL INDEX  
C         (I*4) IT      = GENERAL INDEX  
C         (R*8) V       = GENERAL VARIABLE FOR N-SHELL  
C         (R*8) V1      = GENERAL VARIABLE FOR N-SHELL  
C         (R*8) Y       = GENERAL VARIABLE FOR N-SHELL  
C         (R*8) Y0      = GENERAL VARIABLE FOR N-SHELL  
C         (R*8) Y1      = GENERAL VARIABLE FOR N-SHELL  
C
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C
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C JET
C
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C
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C MODIFIED: RICHARD MARTIN
C - PUT THROUGH SCCS.
C
C

INTEGER IPF, IPFS, IPI
INTEGER IREP (NDREP), IREP MAX, MAXTM, NDPRT
INTEGER NDREP, NDT
REAL*8 DRMF (NDREP, NDPRT, NDPRT, 2, NDT)
REAL*8 DRMS (NDPRT, NDPRT, 2, NDT)