

ADAS Subroutine wupsilon9

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      SUBROUTINE WUPSILON9( ELO      , EHI      , DELTAE, KTYPE  , GF      ,
&                          BPAR      , CPAR      , YKN      , I1      , I2      ,
&                          NELEC     , NCHAR     , NTEMP    , T       , UPS     ,
&                          DSFULL    , ISTDIM    , NET       , ENTE    , OMUP    ,
&                          IWRITE    , INDIM     , WI       , WJ      ,
&                          )
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C ***** FORTRAN77 SUBROUTINE:WUPSILON *****

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C PURPOSE: TO WRITE DATA TO AN OLD/NEW ARCHIVE IN BURGESS FORMAT

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C INPUT:

C (R*8) ELO - LOWER LEVEL ENERGY
C (R*8) EHI - UPPER LEVEL ENERGY
C (R*8) DELTAE - TRANSITION ENERGY
C (I) KTYPE - TRANSITION TYPE
C (R*8) GF - WEIGHTED OSCILLATOR STRENGTH
C (R*8) BPAR - BURGESS SCALING PARAMETER - B
C (R*8) CPAR - BURGESS SCALING PARAMETER - C
C (R*8) YKN - KNOT POINTS
C (I) I1 - LOWER LEVEL INDEX
C (I) I2 - UPPER LEVEL INDEX
C (R*8) NELEC - NUMBER OF ELECTRONS
C (R*8) NCHAR - NUCLEAR CHARGE
C (I) NTEMP - NUMBER OF TEMPERATURE POINTS
C (R*8) T - TEMPERATURES
C (R*8) UPS - UPSILONS
C (C*80)DSFULL - ARCHIVE FILE NAME
C (I) ISTDIM - MAXIMUM INPUT ARRAY DIMENSIONS
C (I) NET - NUMBER OF ENERGY POINTS
C (R*8) ENTE - ENRGIES
C (R*8) OMUP - OMEGAS
C (I) IWRITE - OUTPUT UNIT NUMBER
C (I) INDIM - MAXIMUM OUTPUT ARRAY DIMENSION
C (R*8) WI - LOWER LEVEL STATISTICAL WEIGHT
C (R*8) WJ - UPPER LEVEL STATISTICAL WEIGHT

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C OUTPUT:

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C DATA:

C CIARR(500)*80- 500 IS THE CURRENT LIMIT ON INDEXES

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C ROUTINES:

C

C NONE

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C DATE: 18/06/99 VERSION 1.1

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CHARACTER*80	DSFULL			
INTEGER	I1,	I2,	INDIM,	ISTDIM
INTEGER	IWRITE,	KTYPE,	NET,	NTEMP

REAL*8	BPAR,	CPAR,	DELTAE,	EHI
REAL*8	ELO,	ENTE (ISTDIM) ,		GF
REAL*8	NCHAR,	NELEC,	OMUP (ISTDIM)	
REAL*8	T (ISTDIM) ,	UPS (INDIM) ,	WI,	WJ
REAL*8	YKN (9)			