

ADAS Subroutine g4ppnrb

```
C
      subroutine g4ppnrb(iunt09 , isreq , wghtn , emin , emax ,
&                      iunt10 , iunt07 , ltext , date , user )
C-----
C
C ***** FORTRAN77 ROUTINE: G4PPNRB *****
C
C PURPOSE: Program to post-process AUTOSTRUCTURE to give the spin
C          breakdown Auger rates.
C
C-----
C
C Based upon PPAUTS2:
C
C PROGRAM PPAUTS2
C -----
C
C PROGRAM TO READ OUTPUT FILE FROM AUTOSTRUCTURE AND STRIP OUT
C AUTOIONISATION TRANSITION PROBABILITIES OF INTEREST
C
C REVISED DATA READING ALGORITHM
C
C THIS VERSION OF CODE INTERROGATES MULTIPLE N AND L OUTPUT AS
C PREFERRED BY NRB.
C
C THUS REQUIRES A PRIOR RUN OF AUTOSTRUCTURE WITH OUTPUT GENERALLY
C WRITTEN TO A FILE SUCH AS
C          JETUID.AS91#C.AS#01.PASS3
C
C CHOICES ON THE SPIN (2S+1) OF THE BOUND STATE AND ON THE ENERGY OF
C THE FREE STATE ENABLE RESOLUTION INTO SPIN SYSTEM AND PARENT
C
C THE FINAL OUTPUT CONTAINS WEIGHTED SUMS OF AUGER TRANSITION
C PROBABILITIES, WHICH ARE SUMMED OVER L SEPARATELY AND THEN OVER N.
C
C EACH INDIVIDUAL AUGER TRANSITION PROBABILITY IS WEIGHTED BY (2J+1)
C
C AN N-SHELL AVERAGE IS OBTAINED BY NORMALISING BY THE WEIGHT OF THE
C ENTIRE N-SHELL. THIS IS INPUT BY THE USER AS A MULTIPLIER ON N**2
C I.E.
C          N-SHELL WEIGHT = WGTN * N**2
C
C
C AUTHOR: WILLIAM J. DICKSON
C DATE: 2ND DECEMBER 1992
C ADDRESS: K1/1/26, JET JOINT UNDERTAKING
C-----
C ROUTINES:
C          ROUTINE      SOURCE      BRIEF DESCRIPTION
```

C -----
C G4LLVL ADAS CHECK WETHER A SPECIFIC TRANSITION
C BELONGS TO REQUIRED SET
C
C
C AUTHOR : Martin O'Mullane,
C K1/1/43,
C JET
C
C
C VERSION : 1.1
C DATE : 15/09/2000
C MODIFIED : Martin O'Mullane
C First version.
C
C
C -----

CHARACTER*8	DATE			
CHARACTER*30	USER			
INTEGER	ISREQ,	IUNT07,	IUNT09,	IUNT10
LOGICAL	LTEXT			
REAL*8	EMAX,	EMIN,	WGHTN	