

## ADAS Subroutine xxeryd

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      SUBROUTINE XXERYD( BWNO , IL , WA ,  
&                      ER , XIA  
&                      )
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C \*\*\*\*\* FORTRAN77 SUBROUTINE: XXERYD \*\*\*\*\*

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C PURPOSE: TO CALCULATE THE ENERGY LEVELS IN RYDBERGS ( FROM WAVE NUM-  
C BERS) RELATIVE TO LEVEL 1, AND THE ENERGIES (ALSO IN RYD.)  
C RELATIVE TO THE IONISATION POTENTIAL.

C

C CALLING PROGRAM: GENERAL USE

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C SUBROUTINE:

C

C INPUT : (I\*4) BWNO = IONISATION POTENTIAL (CM-1)

C INPUT : (I\*4) IL = NUMBER OF ENERGY LEVELS

C INPUT : (R\*8) WA() = ENERGY RELATIVE TO LEVEL 1 (CM-1)

C

C OUTPUT: (R\*8) ER() = ENERGY RELATIVE TO LEVEL 1 (RYDBERGS)

C OUTPUT: (R\*8) XIA() = ENERGY RELATIVE TO ION. POT. (RYDBERGS)

C

C (R\*8) WN2RYD = WAVE NUMBER (CM-1) TO RYDBERG CONVERSION  
C (PARAMETER)

C

C (I\*4) I = GENERAL USE

C

C ROUTINES: NONE

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C NOTES: ION. POT. = IONISATION POTENTIAL

C

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C K1/0/81

C JET EXT. 4569

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C DATE: 05/07/90

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INTEGER IL  
REAL\*8 BWNO, ER(IL), WA(IL), XIA(IL)