

ADAS Subroutine c2econ

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C
C      SUBROUTINE C2ECON( INTYP, OUTTYP, AMD,AMR, IEVAL, EIN, EOUT )
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C
C ***** FORTRAN77 SUBROUTINE: C2ECON *****
C
C PURPOSE: TO CONVERT AN ARRAY OF COLLISION ENERGIES INTO A SPECIFIED
C          FORM.
C
C CALLING PROGRAM: GENERAL USE
C
C SUBROUTINE:
C
C INPUT :   (I*4)  INTYP   = 1 => 'EIN (ARRAY)' UNITS: DONOR   EV
C           = 2 => 'EIN (ARRAY)' UNITS: RECVR   EV
C           = 3 => 'EIN (ARRAY)' UNITS: ENERGY EV/AMU
C INPUT :   (I*4)  OUTTYP  = 1 => 'EOUT (ARRAY)' UNITS: DONOR   EV
C           = 2 => 'EOUT (ARRAY)' UNITS: RECVR   EV
C           = 3 => 'EOUT (ARRAY)' UNITS: ENERGY EV/AMU
C INPUT :   (R*8)  AMD     = DONOR MASS NUMBER
C INPUT :   (R*8)  AMR     = RECEIVER MASS NUMBER
C INPUT :   (I*4)  IEVAL   = NO. OF ENERGIES IN EIN (ARRAY)
C INPUT :   (R*8)  EIN ()  = INPUT  ENERGIES (STATED UNITS)
C OUTPUT:   (R*8)  EOUT () = OUTPUT ENERGIES (STATED UNITS)
C
C
C           (I*4)  I       = GENERAL USE
C
C           (R*8)  ECONV () = ENERGY/VELOCITY CONVERSION PARAMETERS
C
C ROUTINES:  NONE
C
C
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C           TEL.  0141-553-4196
C
C DATE:    17/11/95
C
C UNIX-IDL PORT: H.P.SUMMERS
C
C VERSION: 1.1 DATE: 19-11-96
C MODIFIED: WILLIAM OSBORN (TESSELLA SUPPORT SERVICES PLC)
C           - PUT UNDER S.C.C.S. CONTROL
C-----
C
C-----
C
C          INTEGER          IEVAL,          INTYP,          OUTTYP
C          REAL*8           AMD,           AMR,           EIN (IEVAL)
C          REAL*8           EOUT (IEVAL)
```