

ADAS Subroutine r8bcon

FUNCTION R8BCON(INTYP , OUTTYP , EIN)

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C
C ***** FORTRAN77 REAL*8 FUNCTION: R8ECON *****
C
C PURPOSE: TO CONVERT A BEAM ENERGY INTO SPECIFIED UNITS
C           (DOUBLE PRECISION FUNCTION VERSION OF 'XXBCON')
C
C CALLING PROGRAM: GENERAL USE
C
C FUNCTION:
C
C           (R*8)  R8BCON  = FUNCTION NAME -
C                       OUTPUT BEAM ENERGY (STATED UNITS)
C           (I*4)  INTYP   = 1 => 'EIN' UNITS: EV/AMU
C                       = 2 => 'EIN' UNITS: AT. UNITS
C                       = 3 => 'EIN' UNITS: CM S-1.
C           (I*4)  OUTTYP  = 1 => 'R8BCON' UNITS: EV/AMU
C                       = 2 => 'R8BCON' UNITS: AT. UNITS
C                       = 3 => 'R8BCON' UNITS: CM S-1.
C           (R*8)  EIN     = INPUT BEAM ENERGY (STATED UNITS)
C
C           (R*8)  EVUATU  = EV/AMU TO AT. UNITS.
C           (R*8)  EVUCMS  = EV/AMU TO CM S-1.
C
C           (R*8)  BCONV() = BEAM ENERGY CONVERSION PARAMETERS
C
C ROUTINES:  NONE
C
C NOTE:
C           BEAM ENERGY CONVERSION PARAMETERS:
C
C           INTYP = 1 ; BCONV(1) =>           EV/AMU  -> OUTPUT UNITS
C           INTYP = 2 ; BCONV(2) =>           AT. UNITS -> OUTPUT UNITS
C           INTYP = 3 ; BCONV(3) =>           CM S-1   -> OUTPUT UNITS
C
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C          JA8.08
C          TEL. 0141-553-4196
C
C DATE:    21/04/95
C
C UPDATE:  15/05/95 Tim Hammond UNIX PORT
C Put under SCCS control
C-----
C-----
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INTEGER INTYP, OUTTYP
REAL*8 EIN