

ADAS Subroutine omeups9

FUNCTION OMEUPS9(IT , E , B , C , P , X)

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C
C ***** FORTRAN77 SUBROUTINE: OMEUPS9 *****
C
C PURPOSE:
C TO CALCULATE UPSILONS
C
C CALLING PROGRAM:
C MAXW9
C
C INPUT:
C (I*4) IT = TRANSITION TYPE
C (R*8) E = EXCITATION ENERGY (RYD)
C (R*8) B = BURGESS SCALABLE PARAMETER - B
C (R*8) C = BURGESS SCALABLE PARAMETER - C
C (R*8) P () = SPLINE VALUES AT KNOTS
C (R*8) X = COLLIDING ELECTRON ENERGY AFTER EXCITATION
C
C OUTPUT:
C (R*8) OMEUPS9 = UPSILON
C
C ROUTINES:
C SP9 - BURGESS SPLINE FIT
C OMUP9 -
C
C DATE: 21/06/95 VERSION 1.1
C AUTHOR: A.LANZAFAME (UNIV. OF STRATHCLYDE) & D.H.BROOKS
C CONVERTED FROM BURGESS BBC BASIC
C
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INTEGER IT
REAL*8 B, C, E, P(9)
REAL*8 X