

## ADAS Subroutine axomup

FUNCTION AXOMUP (IT, E, T, U, C)

```
C-----
C
C ***** FORTRAN77 SUBROUTINE: AXOMUP *****
C
C PURPOSE:
C     TO INTERPOLATE OMEGAS OR UPSILONS FOR DIFFERENT TRANSITIONS
C
C CALLING PROGRAM:
C     OMEUPS
C
C INPUT:
C     (I*4)   IT - TRANSITION TYPE
C     (R*8)   E - EXCITATION ENRGY
C     (R*8)   T - SCALED ENERGY VALUE OF QUADRATURE FIXED POINTS
C     (R*8)   U - SPLINE FIT TO THE KNOT POINTS AND
C             REDUCED ENERGIES OR TEMPERATURES
C     (R*8)   C - SCALABLE PARAMETER
C
C COMMON:
C     /BURG/
C     (L*4)   LUPSIL = .TRUE.  (UPSILON FITTING)
C             .FALSE. (OMEGA FITTING )
C
C OUTPUT:
C     (R*8) AXOMUP - THE UPSILONS
C
C WRITTEN:  CONVERSION OF OMUP BY A.LANZAFAME & D.H.BROOKS BY
C           HUGH P. SUMMERS, UNIVERSITY OF STRATHCLYDE
C           TEL. 0141-553-4196
C
C DATE:    24/11/96 VERSION 1.1
C MODIFIED: FIRST RELEASE
C
C DATE:    18/05/99 VERSION 1.2
C AUTHOR:  HUGH SUMMERS, UNIVERSITY OF STRATHCLYDE
C           PREVENTED CHANGE OF INPUT SUBROUTINE PARAMETER T ON RETURN
C-----
C
C     INTEGER          IT
C     REAL*8           C,           E,           T,           U
```