

# ADAS Subroutine maxwell

SUBROUTINE MAXWELL (IT, C, E, P, NT, T, U)

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C \*\*\*\*\* FORTRAN77 SUBROUTINE: MAXWELL \*\*\*\*\*  
C  
C PURPOSE: GAUSS-LAGUERRE QUADRATURE FROM BURGESS' PROGRAM  
C OMEUPS  
C  
C INPUT:  
C IT TRANSITION TYPE  
C C OMEGA SCALING PARAMETER  
C E EXCITATION ENERGY  
C P KNOTS  
C NT NUMBER OF TEMPERATURE POINTS  
C T TEMPERATURE  
C  
C OUTPUT:  
C U UPSILON  
C  
C ROUTINES:  
C OMEUPS - TO CALCULATE THE MAXWELL AVERAGED UPSILONS  
C UPS - TO CALCULATE THE MAXWELL AVERAGED UPSILONS FOR ALL  
C TRANSITIONS EXCEPT 'SPIN CHANGE'  
C  
C WRITTEN:  
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C CONVERTED FROM BURGESS BBC BASIC  
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C MODIFIED: A.LANZAFAME & D.H.BROOKS  
C - FIRST RELEASE  
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INTEGER	IT,	NT		
REAL*8	C,	E,	P (5),	T (NT)
REAL*8	U (NT)			