

ADAS Subroutine d7lotz

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SUBROUTINE D7LOTZ (IZ0 , IZ1,  
&                 NPAR,  
&                 A   , B   , C)
```

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C-----  
C  
C ***** FORTRAN77 SUBROUTINE: D7LOTZ *****  
C  
C PURPOSE:  
C     (1) RETURNS LOTZ PARAMETERS FOR A GIVEN Z AND ION STAGE  
C  
C           W LOTZ, IPP 1/62 & IPP 1/76  
C  
C     FOR ELEMENTS AND IONISATION STAGES NOT INCLUDED RETURNS  
C  
C     A(1)=4.5, B(1)=0, C(1)=0      NPAR=2  
C     A(2)=4.5, B(2)=0, C(2)=0  
C  
C     FOR H- AND HE- LIKE  
C     A(1)=4.5, B(1)=0, C(1)=0      NPAR=1  
C  
C     NOTE: NO TRAP FOR IZ1>IZ  
C  
C  
C  
C CALLING PROGRAM: ADAS407  
C  
C SUBROUTINE:  
C  
C  
C INPUT   : (I*4)  IZ0      = NUCLEAR CHARGE  
C INPUT   : (I*4)  IZ1      = FINAL ION CHARGE  
C  
C  
C OUTPUT  : (R*8)  NPAR     = NUMBER OF PARAMETER GROUPS  
C           (R*8)  A ()     = LOTZ A PARAMETER  
C                   1ST DIM: GROUP INDEX  
C           (R*8)  B ()     = LOTZ B PARAMETER  
C                   1ST DIM: GROUP INDEX  
C           (R*8)  C ()     = LOTZ C PARAMETER  
C                   1ST DIM: GROUP INDEX  
C  
C PROGRAM  
C           : (I*4)  IZDIMD  = NUMBER OF ELEMENTS OF LOTZ DATA  
C           : (I*4)  ISDIMD  = NUMBER OF ION STAGES  
C           : (I*4)  IPDIMD  = NUMBER OF A,B,C PARAMETERS  
C  
C           : (L*4)  LZFNDD  = .TRUE. ELEMENT HAS LOTZ PARAMETERS  
C           : (L*4)  LSFNDD  = .TRUE. ION STAGE HAS LOTZ PARAMETERS  
C  
C
```

C NOTE:
C
C ROUTINES: NONE
C
C
C AUTHOR: M O'MULLANE
C
C DATE: 7/07/94
C
C UNIX-IDL PORT:
C WILLIAM OSBORN, TESSELLA SUPPORT SERVICES PLC.
C
C DATE: 22ND APRIL 1996
C
C VERSION: 1.1 DATE: 22-04-96
C MODIFIED: WILLIAM OSBORN
C - FIRST VERSION. NO CHANGES TO IBM CODE.
C-----
INTEGER IZ0, IZ1, NPAR
REAL*8 A(IPDIMD), B(IPDIMD), C(IPDIMD)