

ADAS Subroutine lh404rr

```
SUBROUTINE LH404RR (DATE , USER ,  
& IZ0 , IZL , IZH , CHPRFIX ,  
& MAXT , MAXD , TEK , DENSA ,  
& DSNIN , DSNO , LDTYP , YEAR , OPEN17  
& )
```

```
C-----  
C  
C ***** FORTRAN 77 PROGRAM: LH404RR *****  
C  
C VERSION 1.0  
C  
C PURPOSE:  
C TO FETCH DATA FROM MASTER CONDENSED PARENT/METASTABLE  
C RESOLVED COLLISIONAL DIELECTRONIC FILES AND PREPARE  
C RESOLVED ISONUCLEAR (ADF11) MASTER FILES.  
C  
C BASED UPON LH404RU  
C  
C PROGRAM:  
C  
C PARAMETER : (I*4) NUTMAX - OUTPUT ELEMENT MASTER FILE  
C MAXIMUM NUMBER OF TEMPERATURES  
C PARAMETER : (I*4) NUDMAX - OUTPUT ELEMENT MASTER FILE  
C MAXIMUM NUMBER OF DENSITIES  
C PARAMETER : (I*4) NUZMAX - OUTPUT ELEMENT MASTER FILE  
C MAXIMUM NUMBER OF CHARGE STATES  
C PARAMETER : (I*4) NUMMAX - METASTABLE FRACTIONS  
C MAXIMUM NUMBER OF METASTABLES  
C  
C (R*8) DENSA ( ) - OUTPUT ELEMENT MASTER FILE  
C SET OF MAXD DENSITIES  
C (R*8) TEK ( ) - OUTPUT ELEMENT MASTER FILE  
C SET OF MAXT TEMPERATURES  
C (R*8) DENSL ( ) - OUTPUT ELEMENT MASTER FILE  
C SET OF MAXD DENSITIES IN LOGARITHM  
C (R*8) TEVL ( ) - OUTPUT ELEMENT MASTER FILE  
C SET OF MAXT TEMPERATURES IN LOGARITHM  
C  
C  
C ROUTINES:  
C-----  
C XUFLOW - VS FORTRAN UNDERFLOW EXCEPTION HANDLER  
C CL3270 - JET-SPECIFIC CLEAR SCREEN ROUTINE  
C XXDATE - ADAS - GATHER CURRENT DATE  
C XXOPEN - ADAS - OPEN FILE  
C XXSLEN - ADAS - GET FIRST AND LAST CHAR. POS. IN A STRING  
C DMGUID - JET-SPECIFIC - GATHER USERS ID  
C FILEINF - VS FORTRAN FILE INFORMATION ROUTINE  
C CNV404A - READ ACD,SCD,CCD,PRB,PRC,QCD,XCD RESOLVED  
C ADF10 FILES AND WRITE RESOLVED ADF11 FILES  
C CNV404B - READ PLT,PLS RESOLVED ADF10 FILES  
C AND WRITE RESOLVED ADF11 FILES
```

```

C
C-----
C AUTHOR:  LORNE D. HORTON
C          ROOM K1/1/58, JET JOINT UNDERTAKING
C
C   DATE:   5TH AUGUST 1996
C
C-----
C UNIX-IDL PORT:
C
C VERSION: 1.1 DATE: 11-11-96
C MODIFIED: WILLIAM OSBORN (TESSELLA SUPPORT SERVICES PLC)
C - FIRST CONVERTED
C           - MADE A SUBROUTINE OF ADAS404
C
C VERSION: 1.2                               DATE: 4/11/99
C MODIFIED: Martin O'Mullane
C           - Add real name of producer.
C           - Modify comments.
C           - Write the metastable line with new D4WMET subroutine.
C           - Increase size of DSNOUT to 80 from 35.
C
C VERSION : 1.2
C DATE    : 23-02-2006
C MODIFIED: Martin O'Mullane
C           - Use the same extrapolation as unresolved case. ie
C             do not bypass options in the dxspl<n>.for routines.
C
C VERSION : 1.3
C DATE    : 04-01-2007
C MODIFIED: Martin O'Mullane
C           - F-like and Ne-like stages have 2 (not 1) metastables.
C             Change NGRD vector.
C           - Use 11605.4 as K/eV conversion (same as xxtcon).
C
C-----

```

CHARACTER*2	CHPREFIX			
CHARACTER*8	DATE			
CHARACTER*80	DSNIN(50,10),		DSNO(10)	
CHARACTER*30	USER			
CHARACTER*2	YEAR			
INTEGER	IZ0,	IZH,	IZL,	MAXD
INTEGER	MAXT			
LOGICAL	LDTYP(9),	OPEN17		
REAL*8	DENSA (NUDMAX),		TEK (NUTMAX)	