
ADF35: spectral filter data

Provides absorption source data and spectral filter data.

Utilising subroutines :

ADAS408

Formatted files to ADF35 specification :

Database Status Date = March 21 , 2000 Data type = filters Data root = /.../adas/adas/adf35/

<i>class library</i>	<i>Members</i>	<i>elements</i>	<i>Comments</i>
/henke/data	<elem sym.	H-U	Henke absorption x-sect ource data
dataset*	JET_filter		Sample JET specific filter

Filter data lines :

Format:

NVAL, NEDGE, I1, I2	(4I5)
(WEDGA(I),I=1,NEDGE)	(8F10.3)
(WVLNA(I),I=1,NVAL)	(8F10.3)
(TLG10A(I),I=1,NVAL)	(8F10.3)

variable identification

<i>name</i>	<i>meaning</i>
NVAL	number of filter function data values
NEDGE	number of indentified absorption edges
I1	
I2	
WEDGA()	wavelength of absorption edges (Angstroms)
WVLNA()	wavelengths of tabulated transmission factors (Angstroms)

TLG10A() Logarithm base 10 of filter function

Table B35a - example.

510	5	0	1					
72.800	99.700	111.600	1559.700	1839.000				
10.000	10.162	10.326	10.493	10.663	10.835	11.011	11.189	
11.370	11.554	11.740	11.930	12.123	12.319	12.519	12.721	
12.927	13.136	13.348	13.564	13.784	14.007	14.233	14.463	
21418.500	21765.000	22117.000	22474.699	22838.199	23207.600	23583.000	23964.400	
24352.000	24745.900	25146.199	25552.900	25966.199	26386.100	26812.900	27246.600	
27687.301	28135.100	28590.199	29052.600	29522.500	30000.000			
-74.00000	-74.00000	-74.00000	-74.00000	-74.00000	-74.00000	-74.00000	-74.00000	
-74.00000	-74.00000	-74.00000	-74.00000	-74.00000	-74.00000	-74.00000	-74.00000	
-74.00000	-74.00000	-74.00000	-74.00000	-74.00000	-74.00000	-74.00000	-74.00000	
-0.67921	-0.69827	-0.71745	-0.73674	-0.75615	-0.77567	-0.79529	-0.81501	
-0.83483	-0.85474	-0.87474	-0.89482	-0.91499	-0.93524	-0.95557	-0.97597	
-0.99644	-1.01698	-1.03759	-1.05826	-1.07899	-1.09979			

C								
C Photon energy vs. Transmission of filter (T) x absorption in detector (A)								
C								
C Units: photon energy in eV								
C [T*A] in logarithm base 10								
C								
C Data Source: http://xray.uu.se								
C								
C Energies of absorption edges (eV)								
C 72.800 99.700 111.600 1559.700 1839.000								
C								
C Filter :								
C Element Thickness (micron)								
C Be 25.00000								
C Al 0.20000								
C Si 0.20000								
C								
C Diode (absorber)								
C Element Thickness (micron)								
C Si 300.00000								
C								
C Code : ADAS414								
C Producer : Hugh Summers								
C Date : 13/03/00								
C								
C								
C-----								