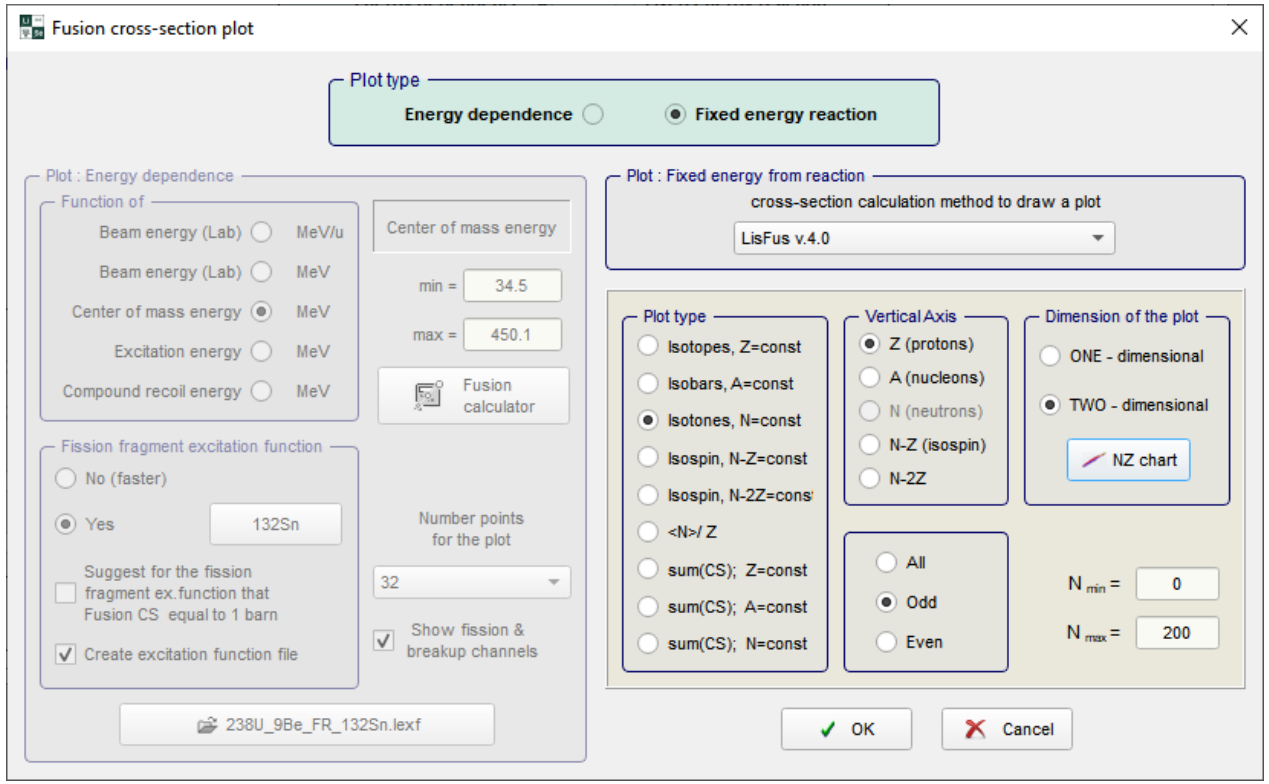
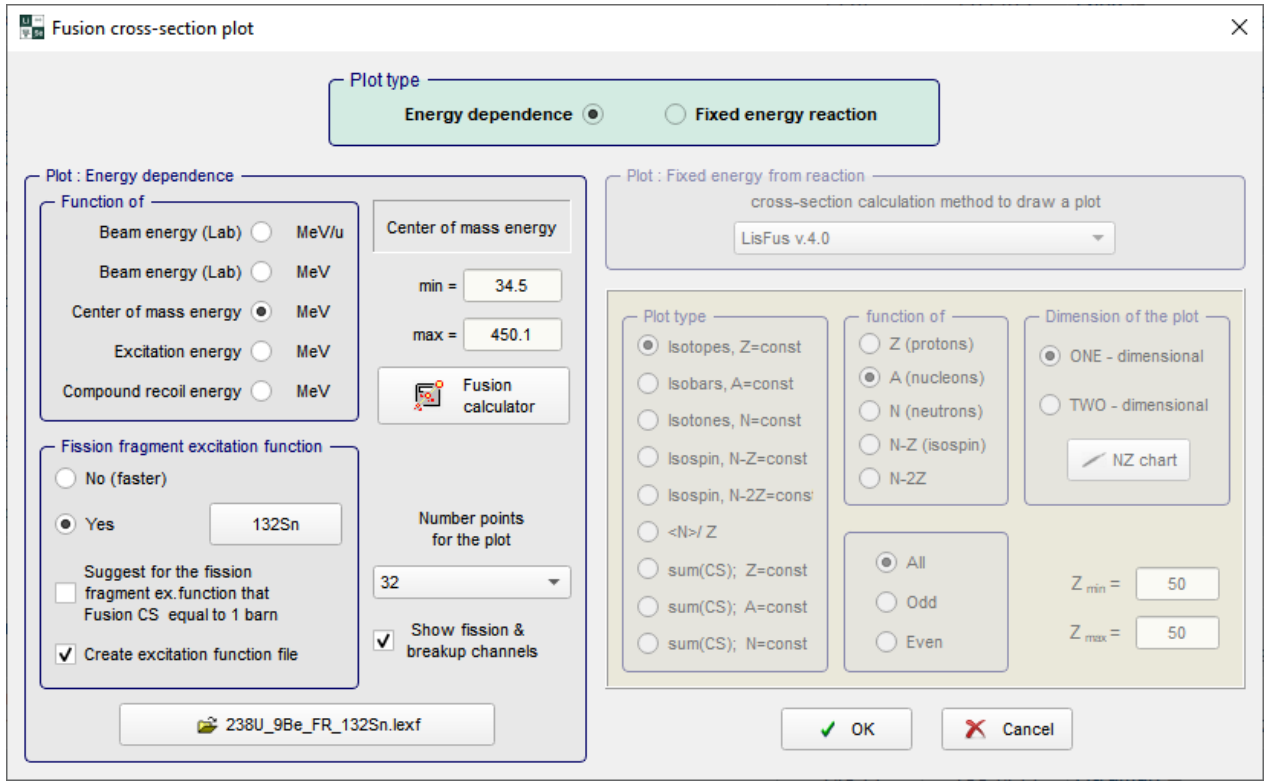
LISE cute status 08/07 - 08/13

NOTE: this week -- Low Energy Community Meeting

```
//-------------------------------------------------------------------------------
// 14.10.5   08/07/20
// d_Fusion_plot   dialog : DONE!


// Fix of bug with char arrays (non-compatible with Qt)
// Managing font, font size for LISEQt shell
// Exploration of DPI scaling functions
```





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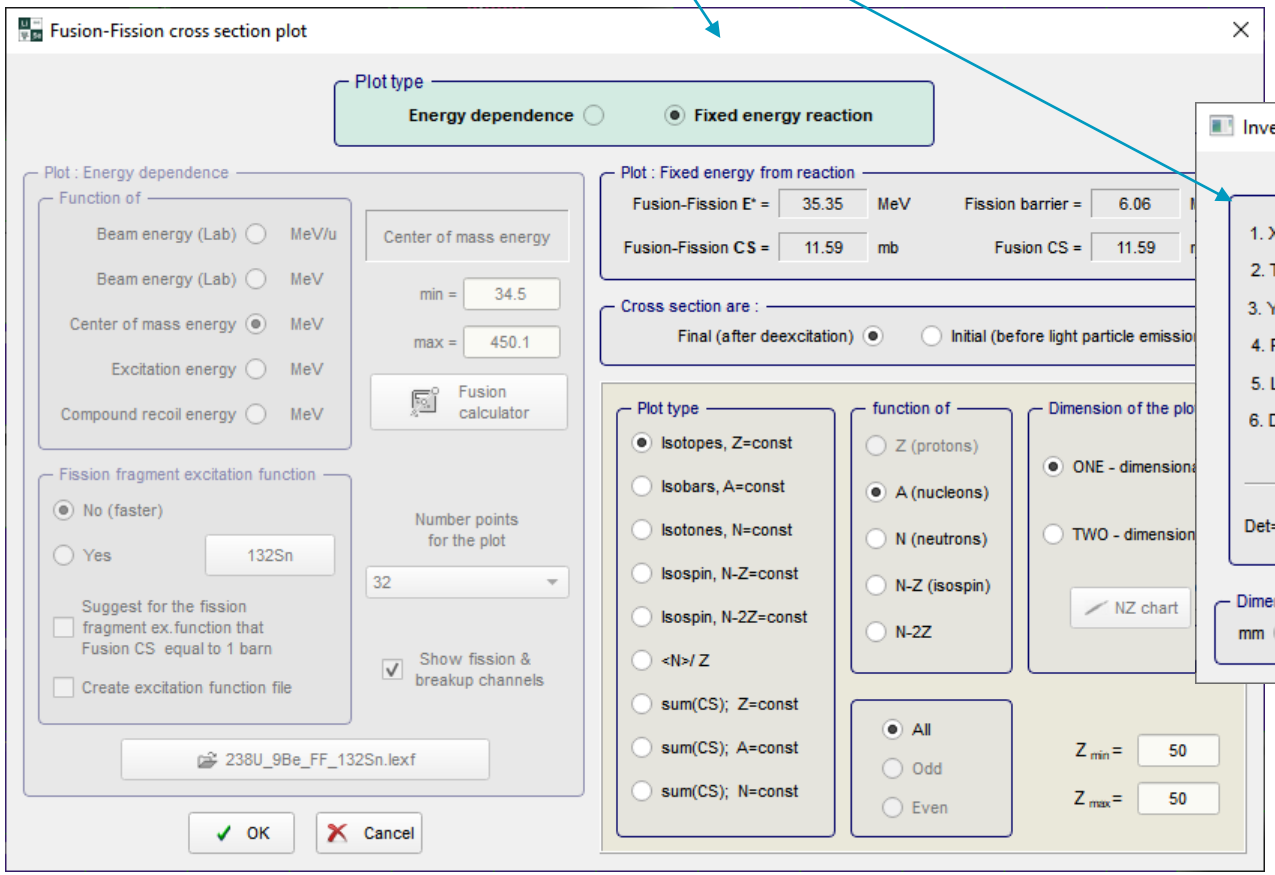
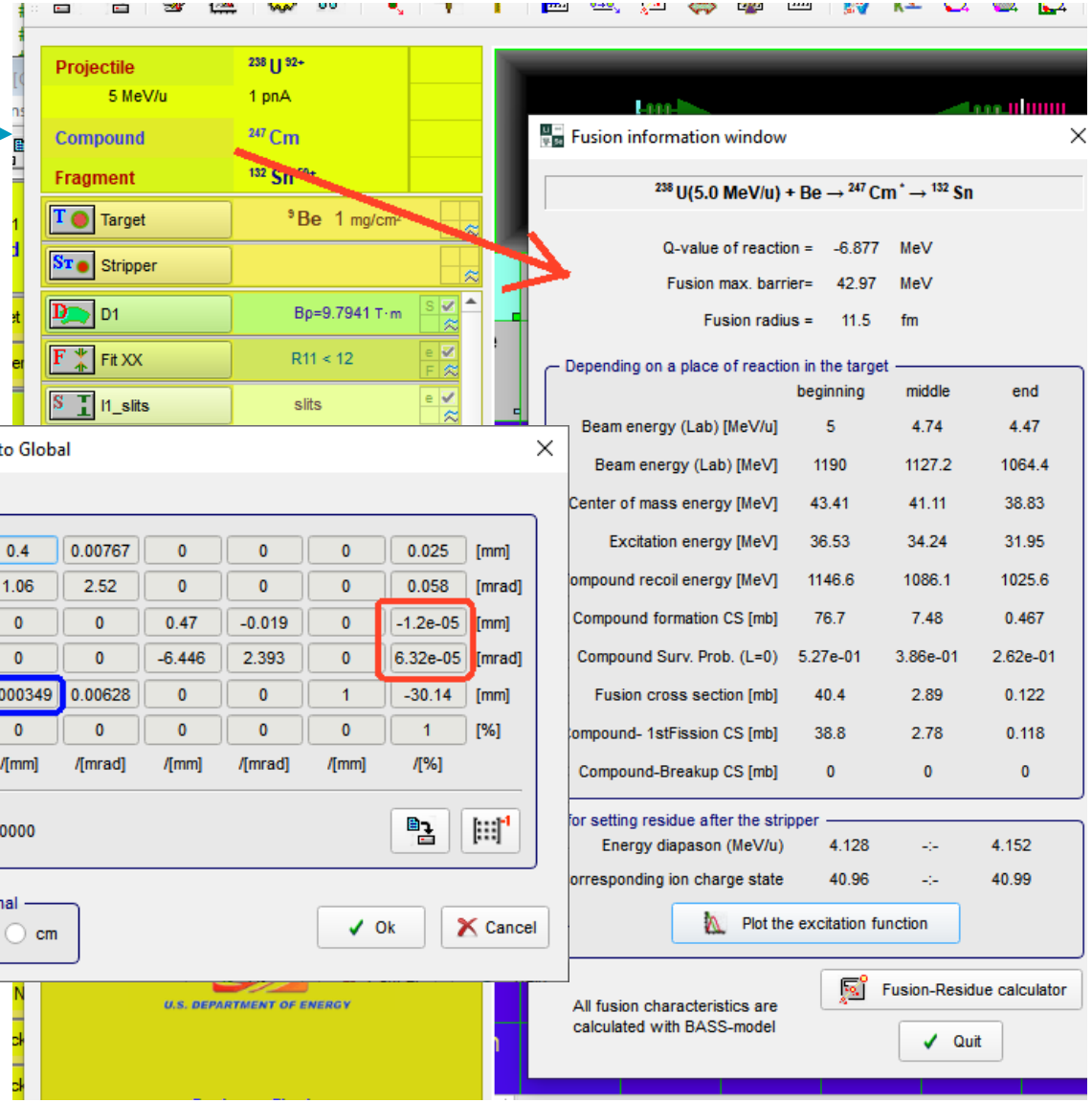
```
//-------------------------------------------------------------------------------
// 14.10.6   08/08/20
// d_FusFission_plot   dialog : DONE!
// MakeFusionCompound() has been implemented from Borland
// Left Setup-Panel modification for Compound nucleus


// modification of LiseQt function "numberKillZero"
// using "numberKillZero" 'g'-format for Optical matrices
```





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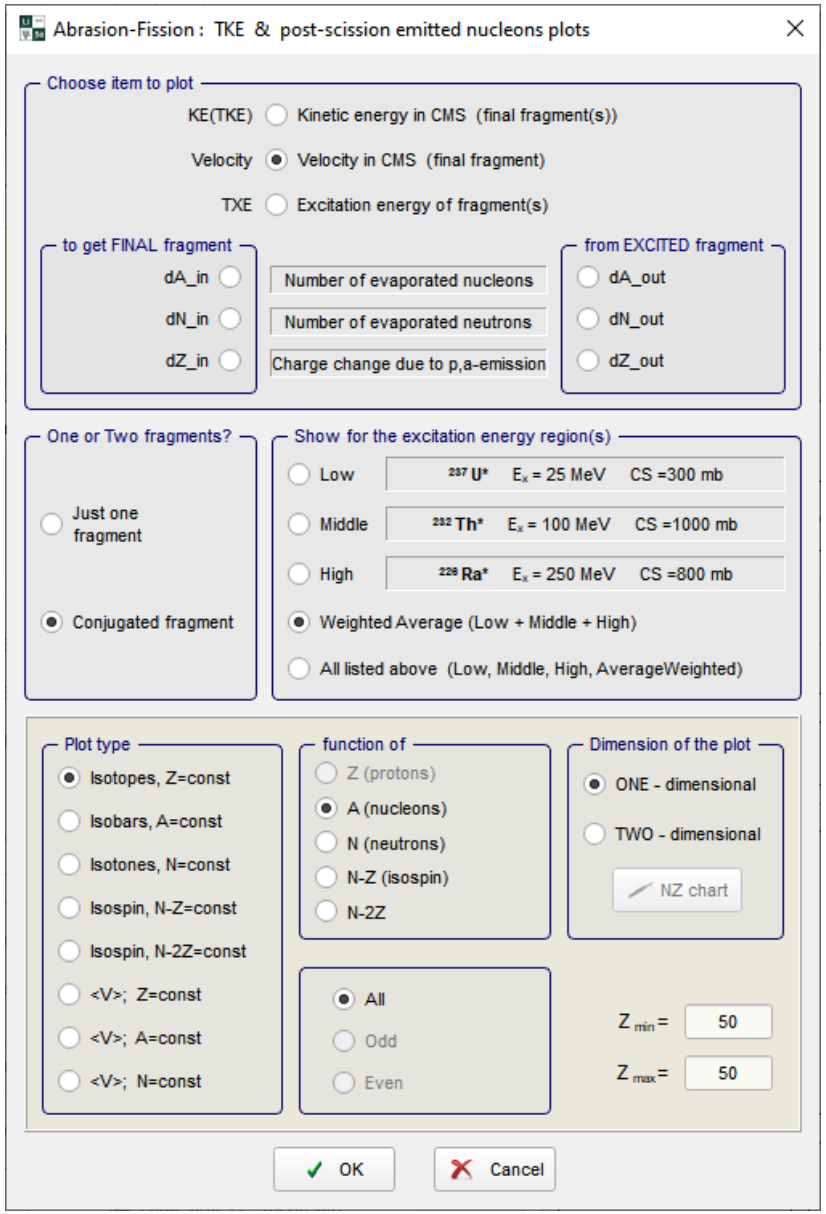
//----------

// 14.10.7 09/08/20

// d_AbrFission_plotTKE dialog : DONE!



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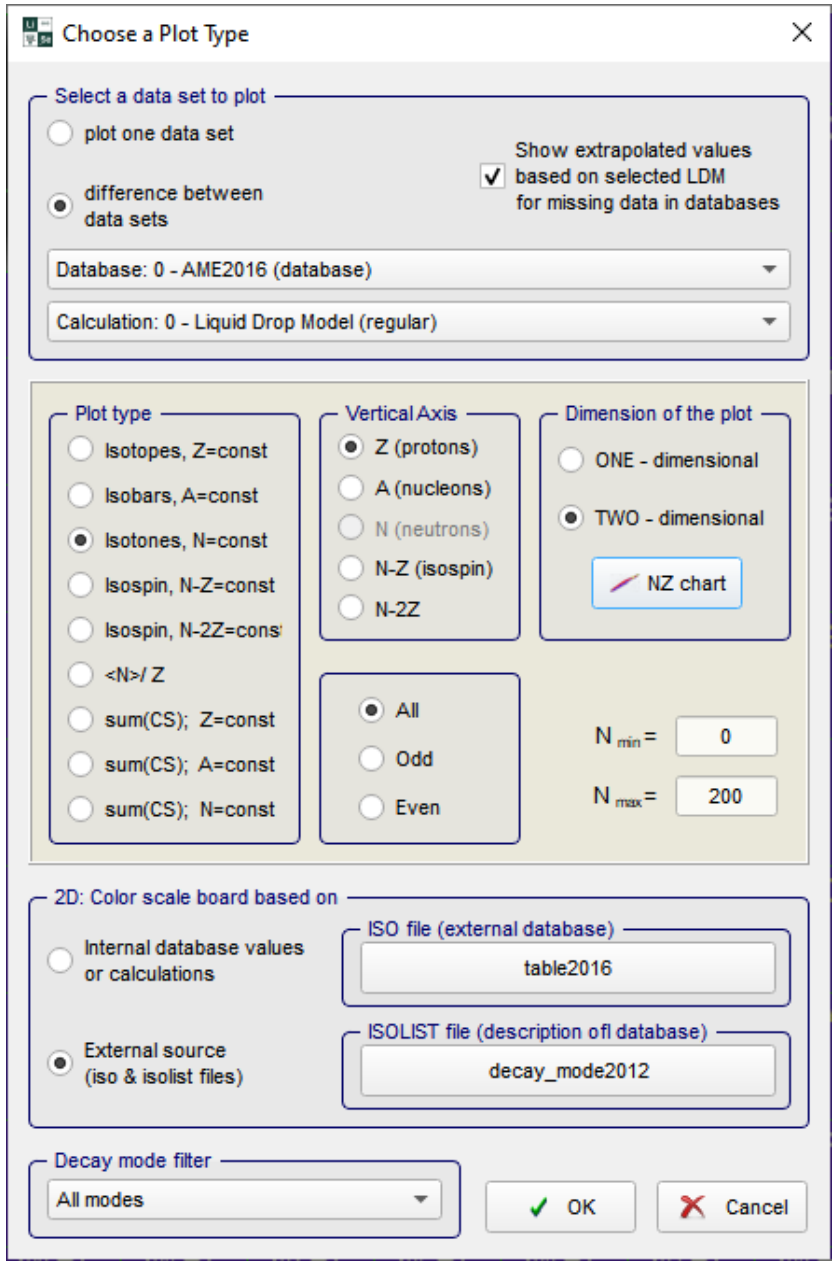
//----------

// 14.10.8 10/08/20

// d_PlotCS_DB dialog (Database) : dialog : redesign 100%, connection 60%

// connection of all actions and slots for Database plots in CmPlotDatabase(int)

last CS&TKE&DB Plot dialog



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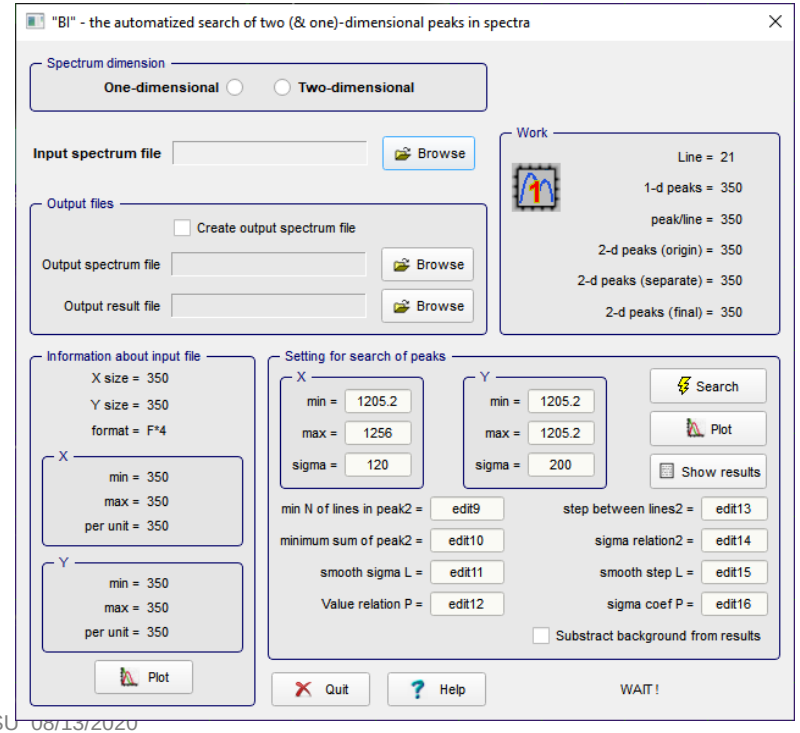
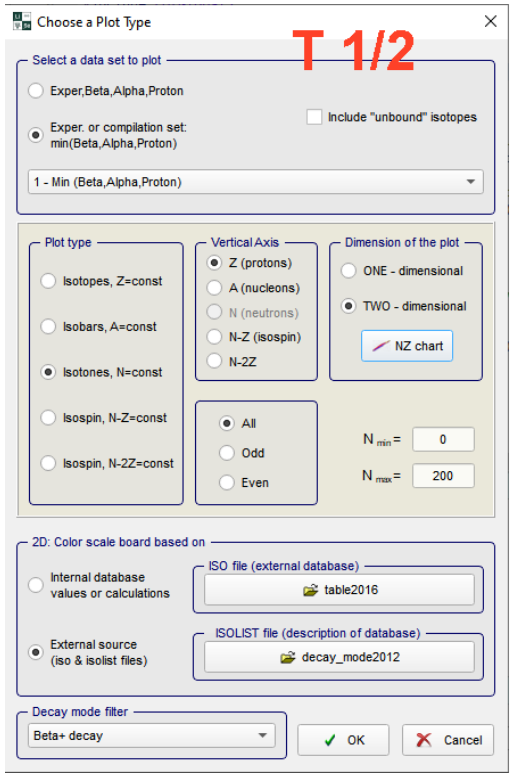
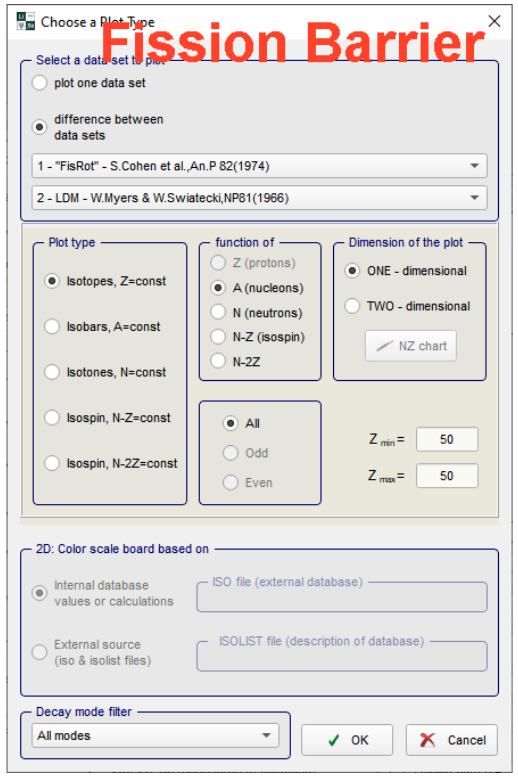
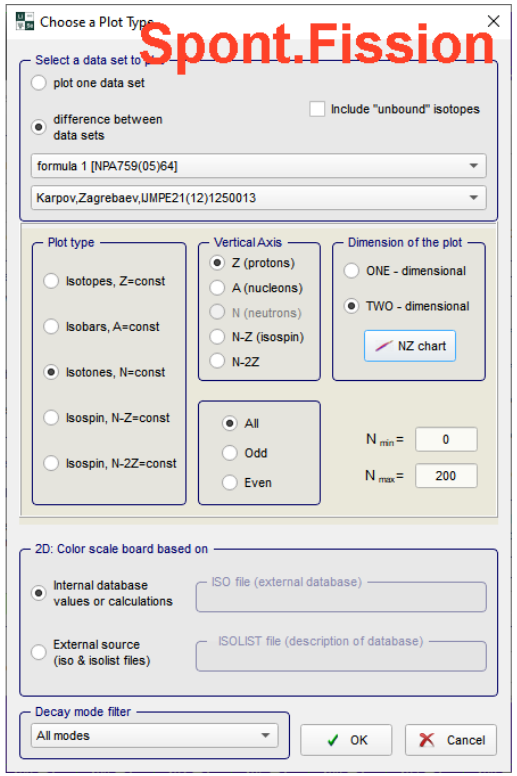
```
//-------------------------------------------------------------------------------
// 14.11.1   11/08/20
// d_PlotCS2_DB dialog (Database) : dialog : DONE!
// all 5 modes done :  DB, FissionBarrier, T12, Alpha-decay, Spont.Fis

// Last Plot_CS dialogs has been completed (total 16)
// the middle version has been increased

// d_Bi dialog  : redesign  80%, connection 10%
```









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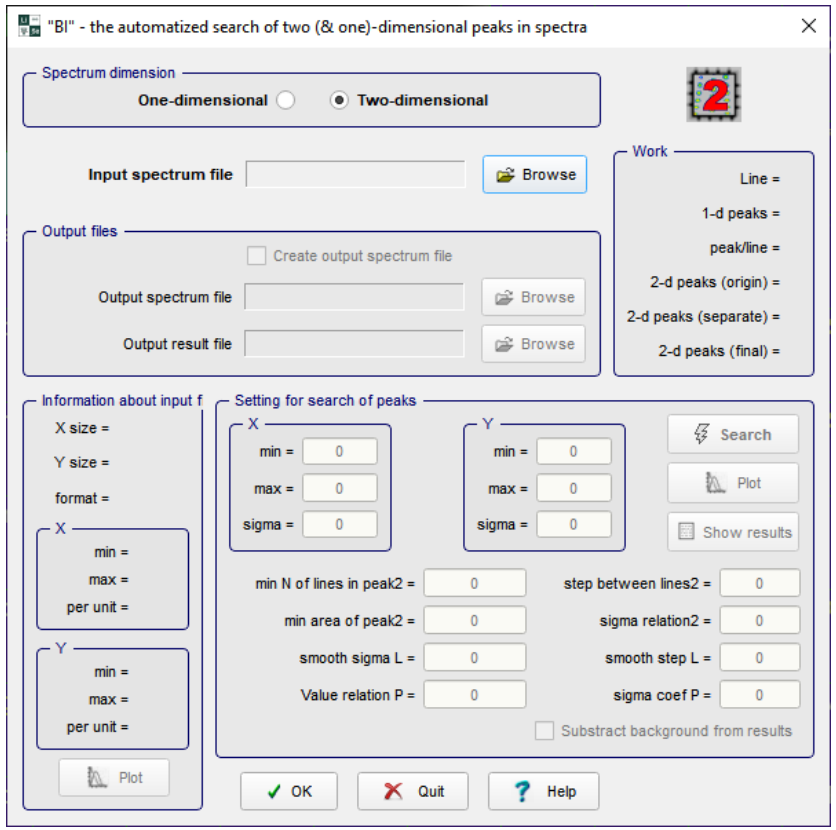
// w_BI library implementation from Borland
// NSCLspectre library implementation from Borland

// d_Bi dialog : redesign 90%, connection 50%



http://lise.nscl.msu.edu/doc/bi_doc_eng.pdf

Contents:

1. The "Bi" code - search two-dimensional of peaks and definition of their characteristics

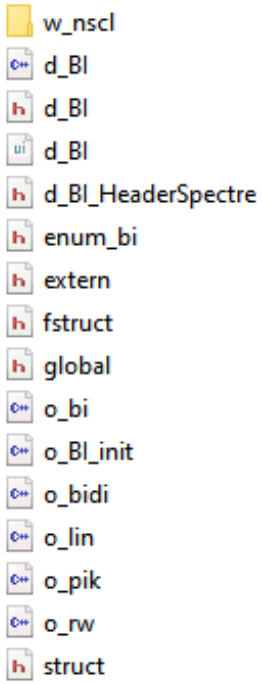
• Definition of outputs of nuclei rather labor-consuming process: it is necessary to analyze tens matrixes, each of which carries the information on several tens ions. So in case of the experiment with the beam ^{112}Sn the nuclei with mass numbers from 8 up to 53 were identified [Lew94]. For each meaning of magnetic rigidity there were four matrixes for various charging states of products, and in everyone more than five hundred ions. After measurement of outputs all data are brought in to the computer for the further analysis. Enormous volume of work can be estimated:

*500 ions * 4 matrixes for charge states * 10 values of magnetic rigidity = 20 000 values!!*

• It is necessary also to note a high probability of subjective mistakes of the experimenters connected, both with the analysis two-dimensional of peaks, and at carry of the information to the computer. In this connection, for the automated search of two-dimensional peaks and definition of statistical parameters the program "Bi" were created (spelling [bi]).

• There are three versions of the program:

	Operating system	Programming language	Spectrum format
1	VMS 5.1 and higher	Fortran	GANIL Acquisition
2	MS DOS 3.3 and higher	C	The code "Athene" /format "SURFER/



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//----------

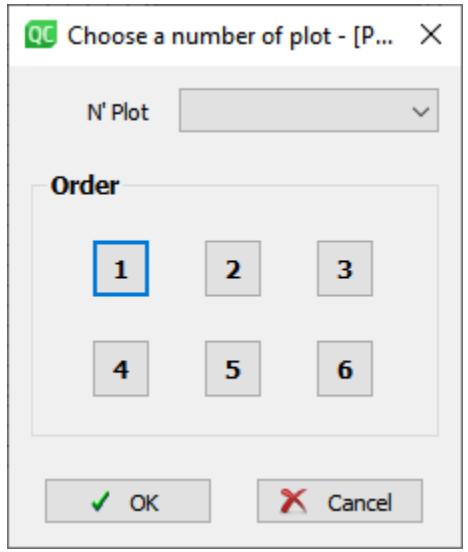
// 14.11.3 13/08/20

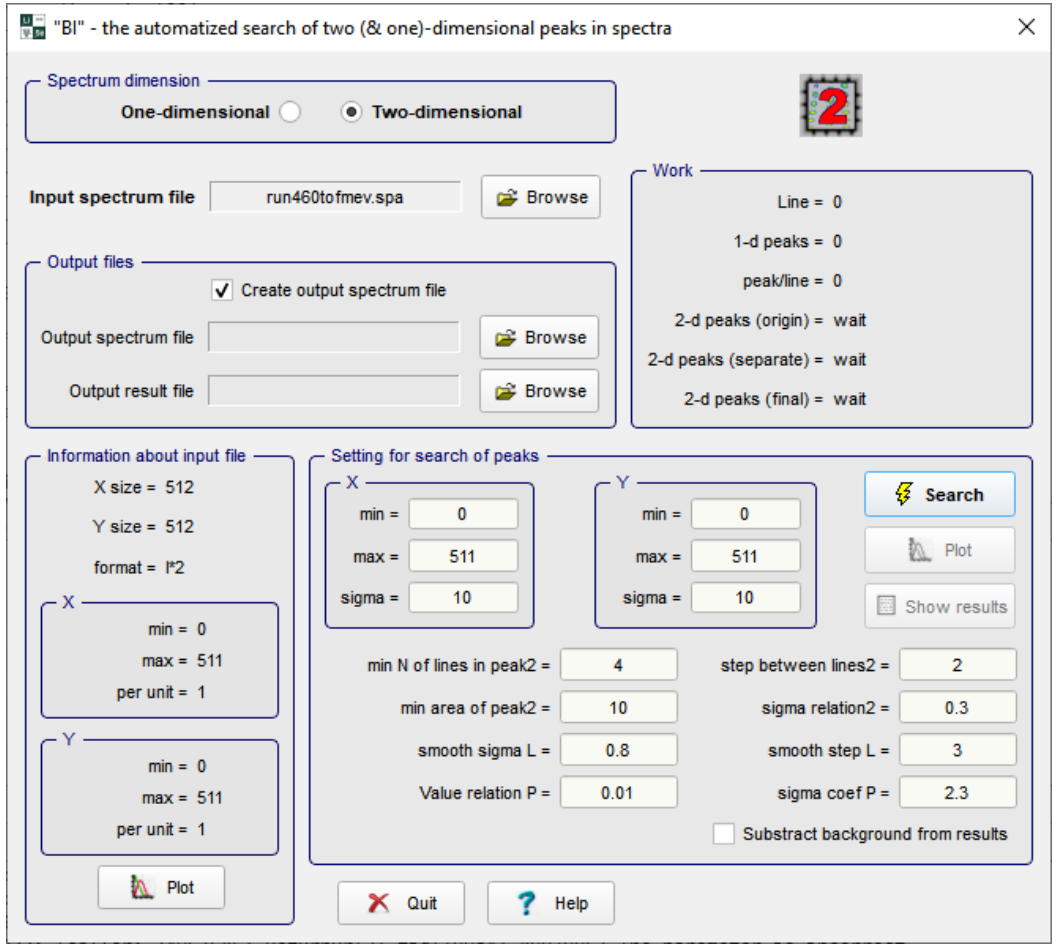
// d_Bi dialog : redesign 100%, connection 75%

// d_Choise_plot dialog : DONE!

// **The Plot-phase starts!**

// implementation file c_Graph..* c_Plot.* from Borland; adapted 5%





LISE dialogs porting status (v.15)

08/06

1	Directory	Subdirectory	Dialog	re-Design, %	Link, %	DONE	Plots total	Plots done	Bench-mark	Comments	date	size	size done	
215	w_Stuff		d_Value_input	100	100	1					04/15/20	3401	3401	
216	w_Stuff		w_Gauge	100	100	1					03/31/20	5122	5122	
217														
218		total		215		sum	193	89.8%				4.96E+06	4.43E+06	89.4%
219		procent			completely done		167	77.7%						

08/13

1	Directory	Subdirectory	Dialog	re-Design, %	Link, %	DONE	Plots total	Plots done	Bench-mark	Comments	date	size	size done	
212	w_Stuff		d_FRIB_isotopes	100	100	1	0				03/31/20	3078	3078	
213	w_Stuff		d_Password	100	100	1	0				03/31/20	2234	2234	
214	w_Stuff		d_Transmission_statistics	100	100	1	0				05/28/20	60991	60991	
215	w_Stuff		d_Value_input	100	100	1					04/15/20	3401	3401	
216	w_Stuff		w_Gauge	100	100	1					03/31/20	5122	5122	
217														
218		total		215		sum	198	92.1%				4.96E+06	4.53E+06	91.4%
219		procent			completely done		172	80.0%						

LISE++ porting schedule (v.16)