TT

A Plotting Program for the Experimental and Evaluated Nuclear Reaction Data

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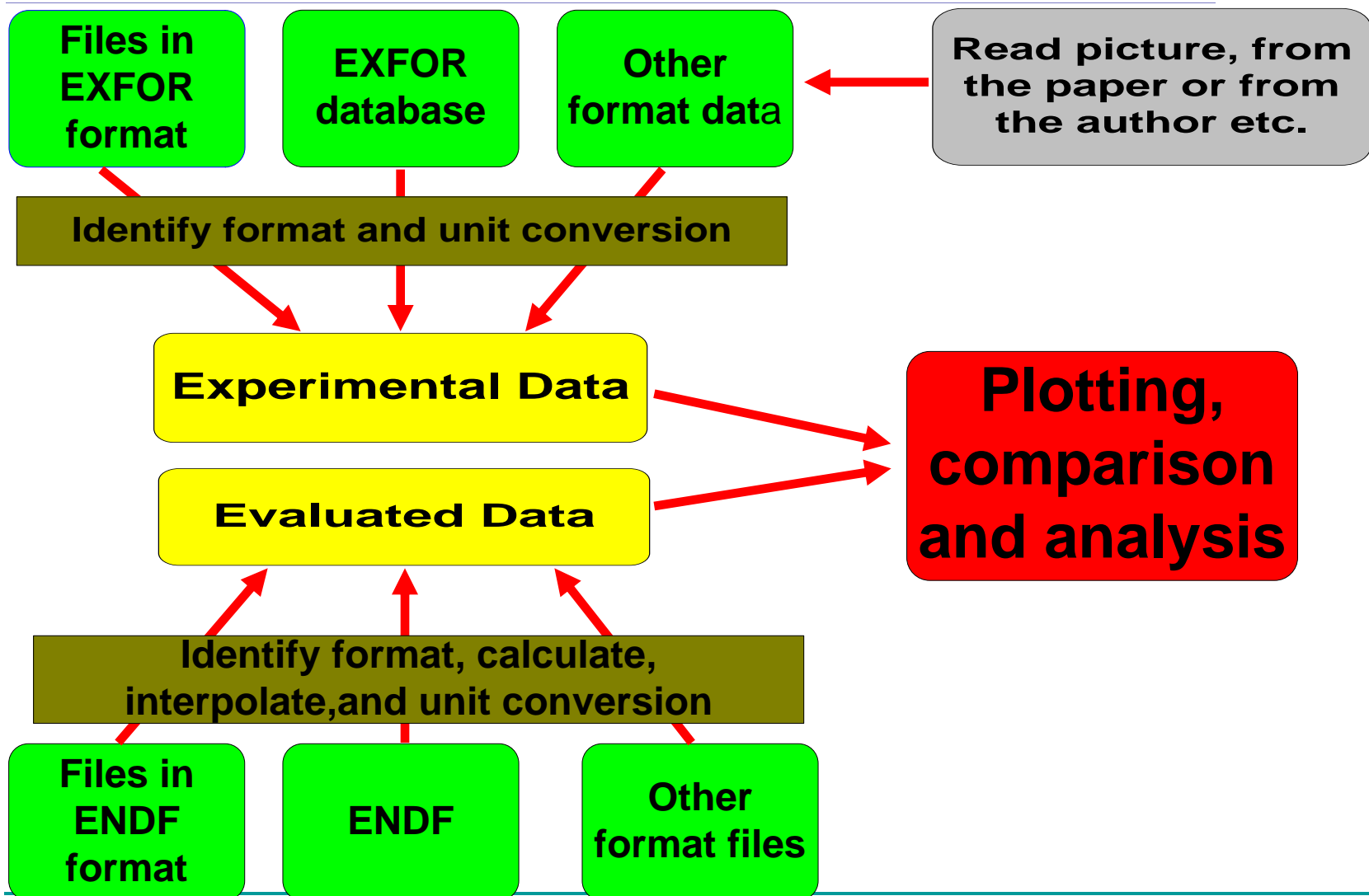
1. **Introduction**

2. **Functions**

3. **Examples**

4. **Conclusions**

1. Introduction

- **TT** is a software for data retrieving, conversion, plotting and comparison.

- **Supported by China Nuclear Data Center（CNDC）.**

- **Developed by JIN Yongli （CNDC）.**

- **A GUI (graphic user interface) platform, run under the WINDOWS, LINUX, UNIX, etc.**

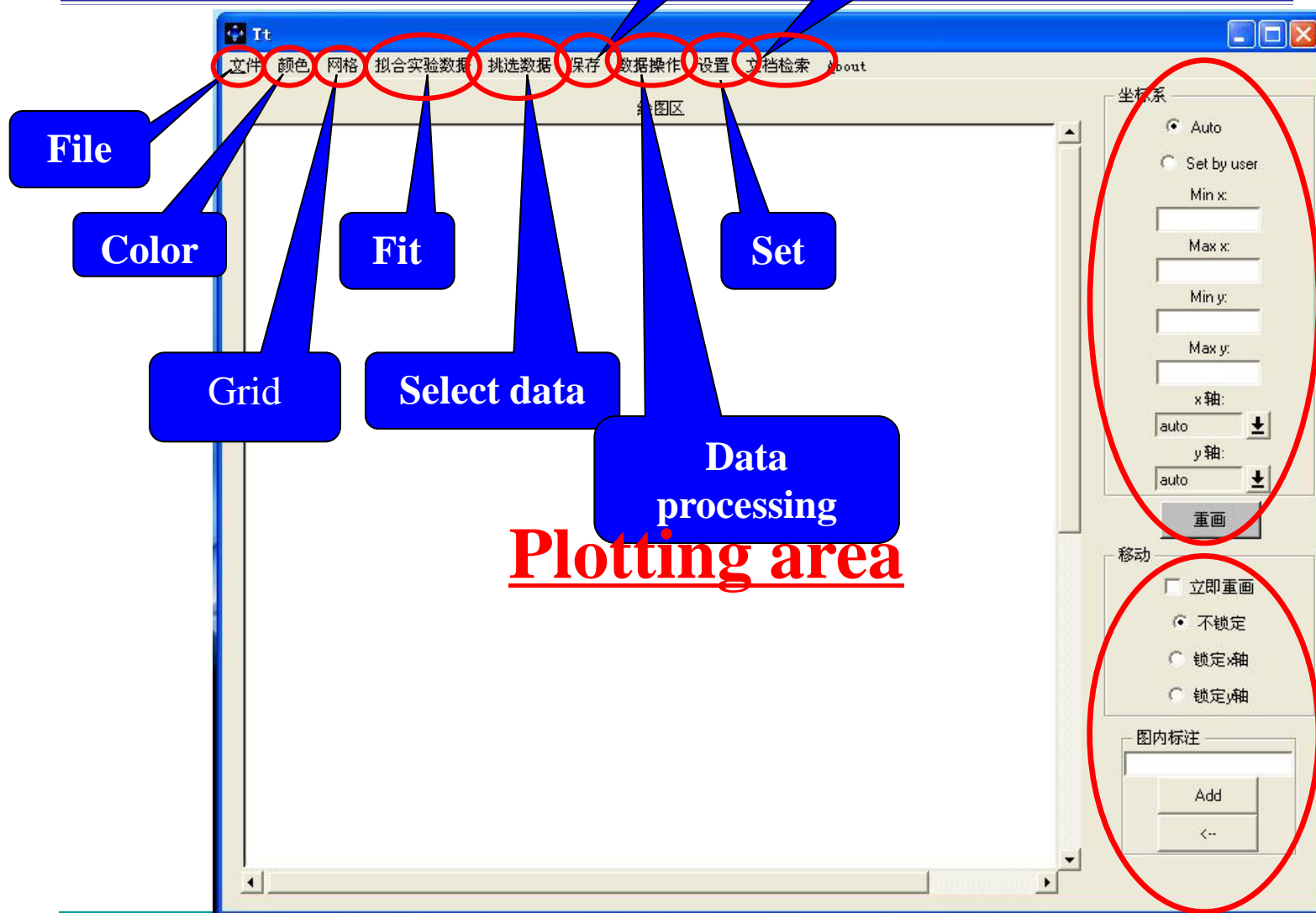- **Used in CNDC and other laboratories of China.**

2. Functions (1/3)

Files in EXFOR format	EXFOR database	Other format data

Read picture, from the paper or from the author etc.

Identify format and unit conversion

Experimental Data

Evaluated Data

Plotting, comparison and analysis

Identify format, calculate, interpolate, and unit conversion

Files in ENDF format	ENDF	Other format files

- **Treatment of the cross sections, energy spectra, angular distributions, etc.**

- **Comparison of the experimental and evaluated nuclear reaction data.**

- **Using user-defined format data, theoretical calculated results.**

- **Save the plotting data and figure (bmp, jpg, eps, ……).**

- **Retrieve & transfer the exp. and eval. data from the database online.**

2. Functions (3/3)

Save

Retrieve

File

Color

Fit

Set

Grid

Select data

Data processing

Plotting area

3. Examples (1/9)

3.1 Plotting of the cross sections for ^{56}Fe(n,2n)
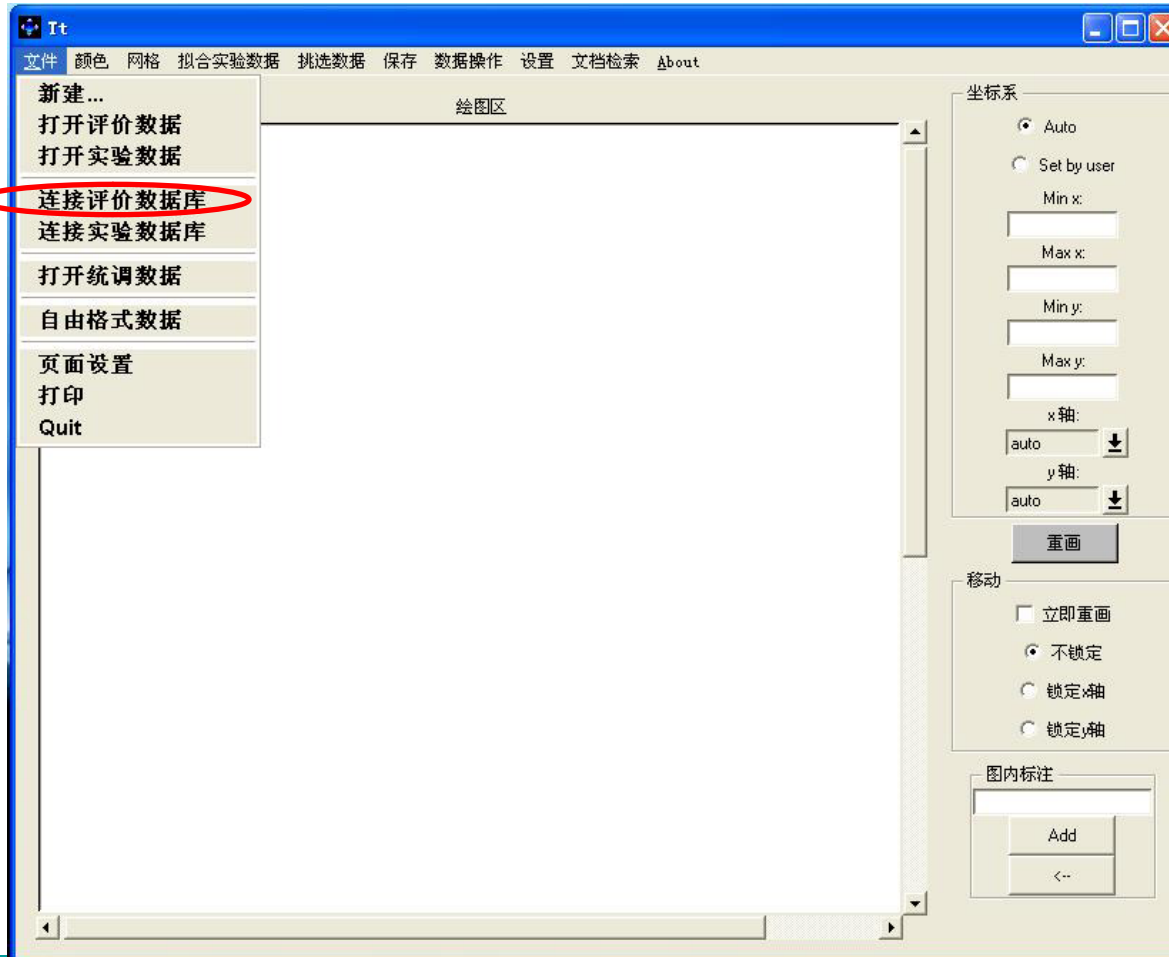
Connect with the ENDF database
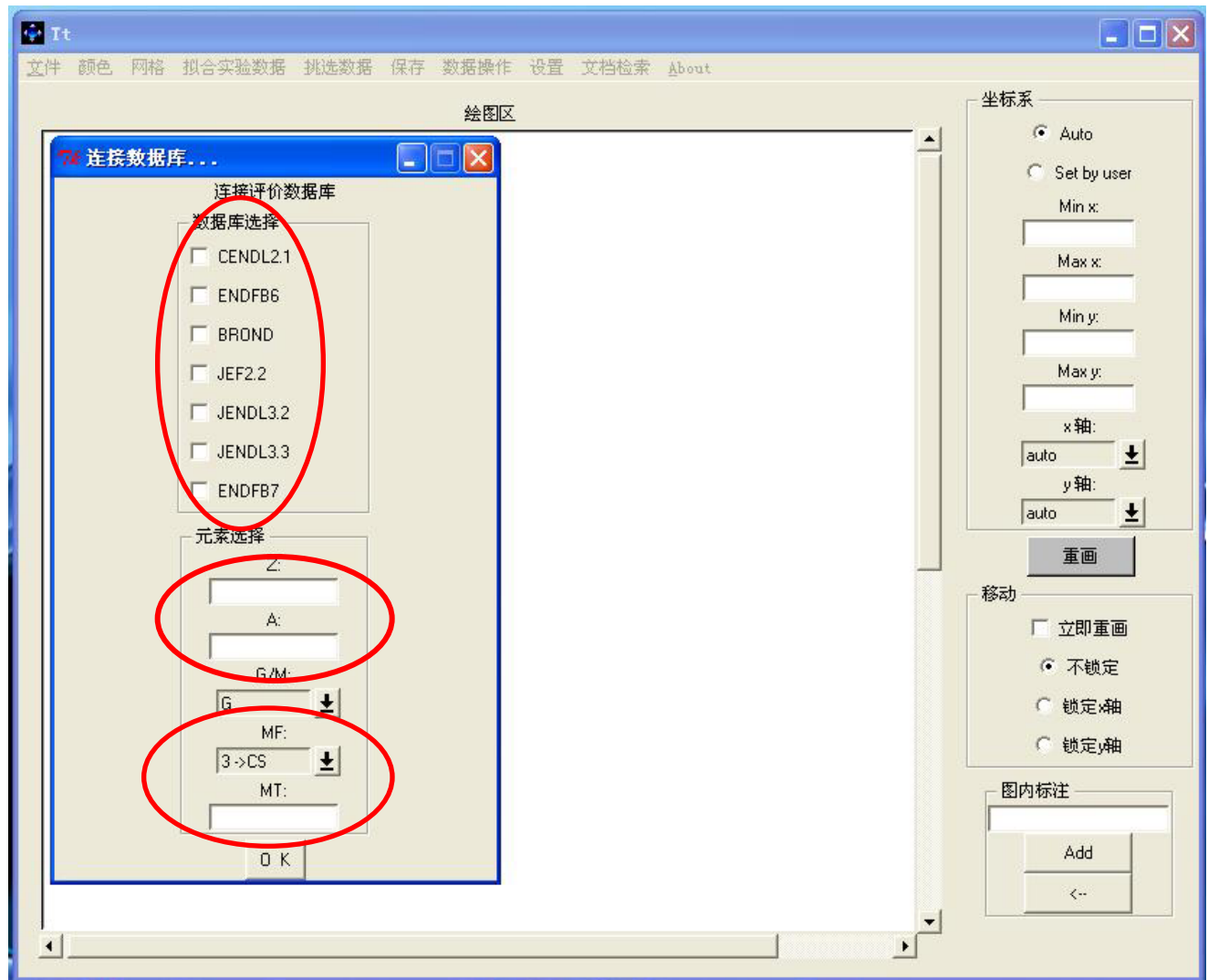
3. Examples (3/9)

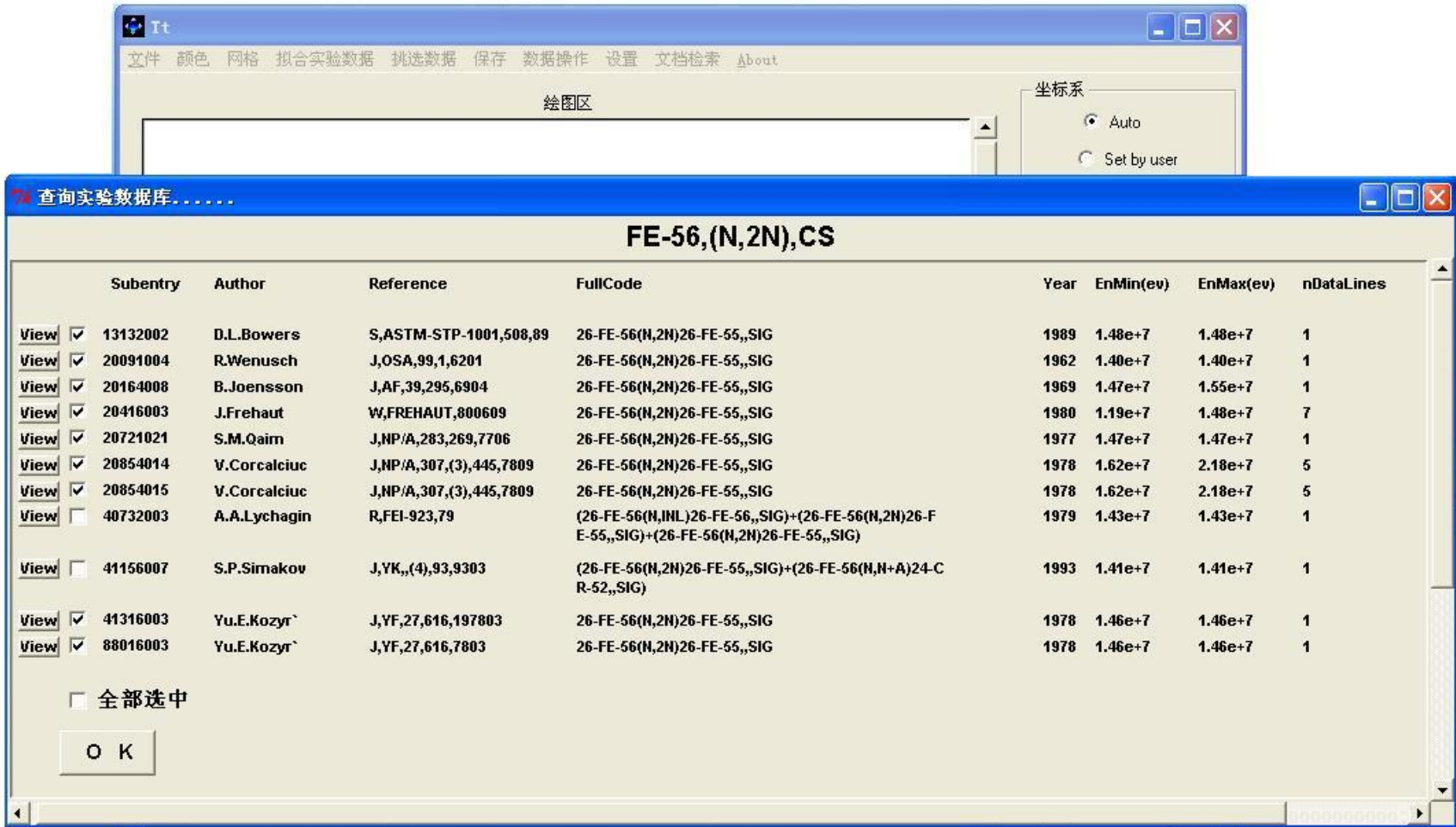**Select eval. libraries and input Z,A,MF & MT**

Hokkaido University, Sapporo, Japan
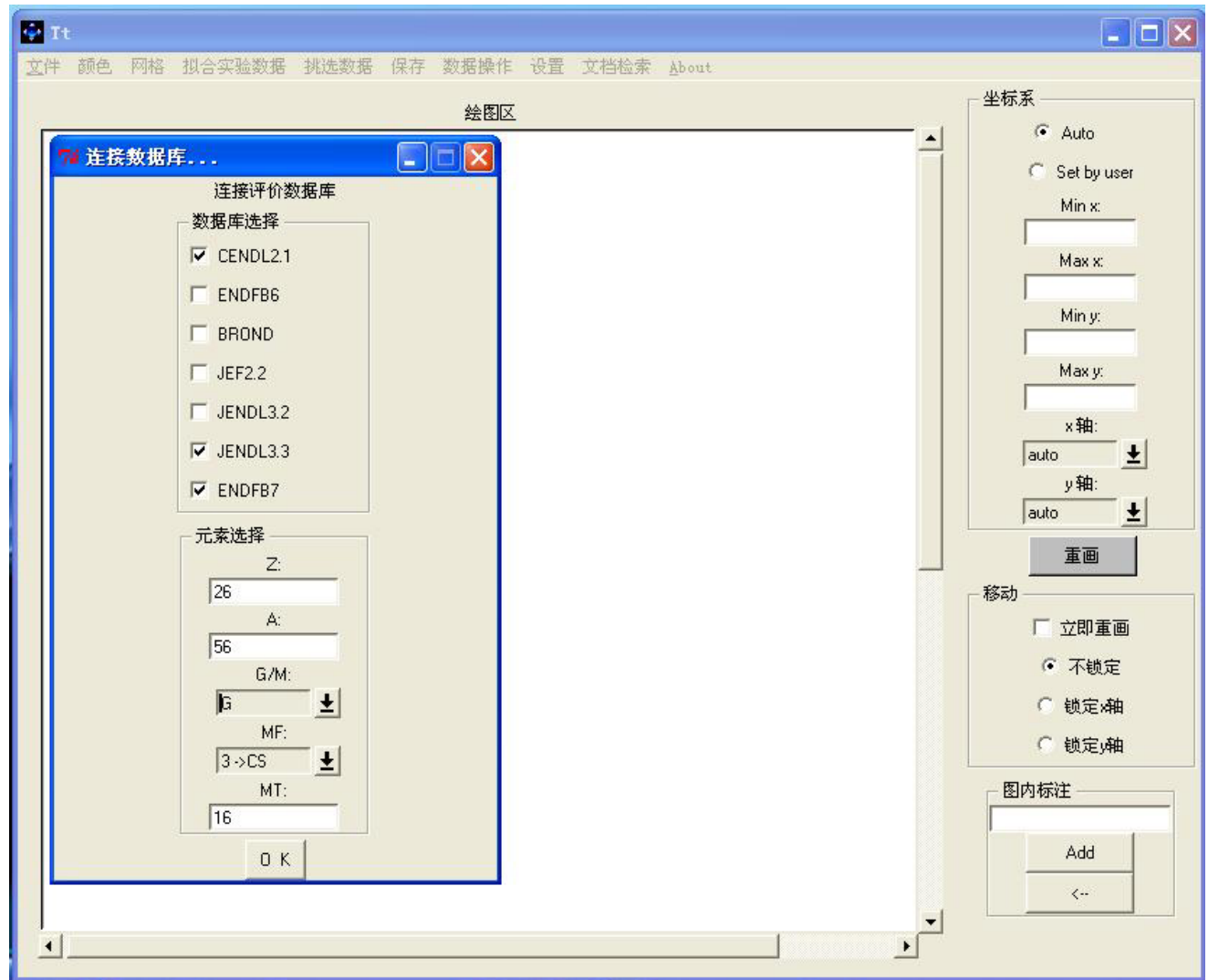
Connect with the EXFOR database

Retrieve & select experimental data
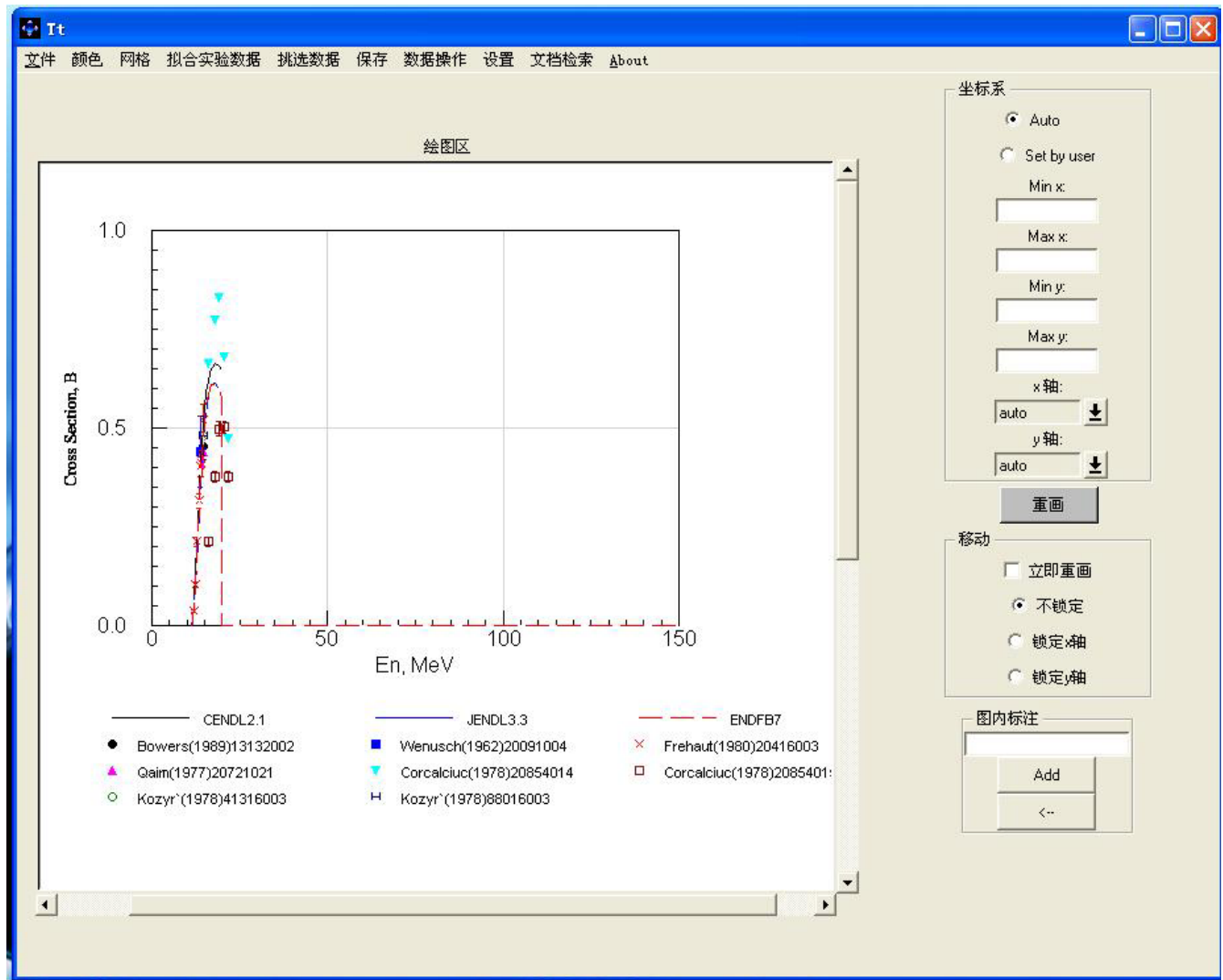
Plotting

3. Examples (7/9)

Adjust coordinate range & format

Hokkaido University, Sapporo, Japan
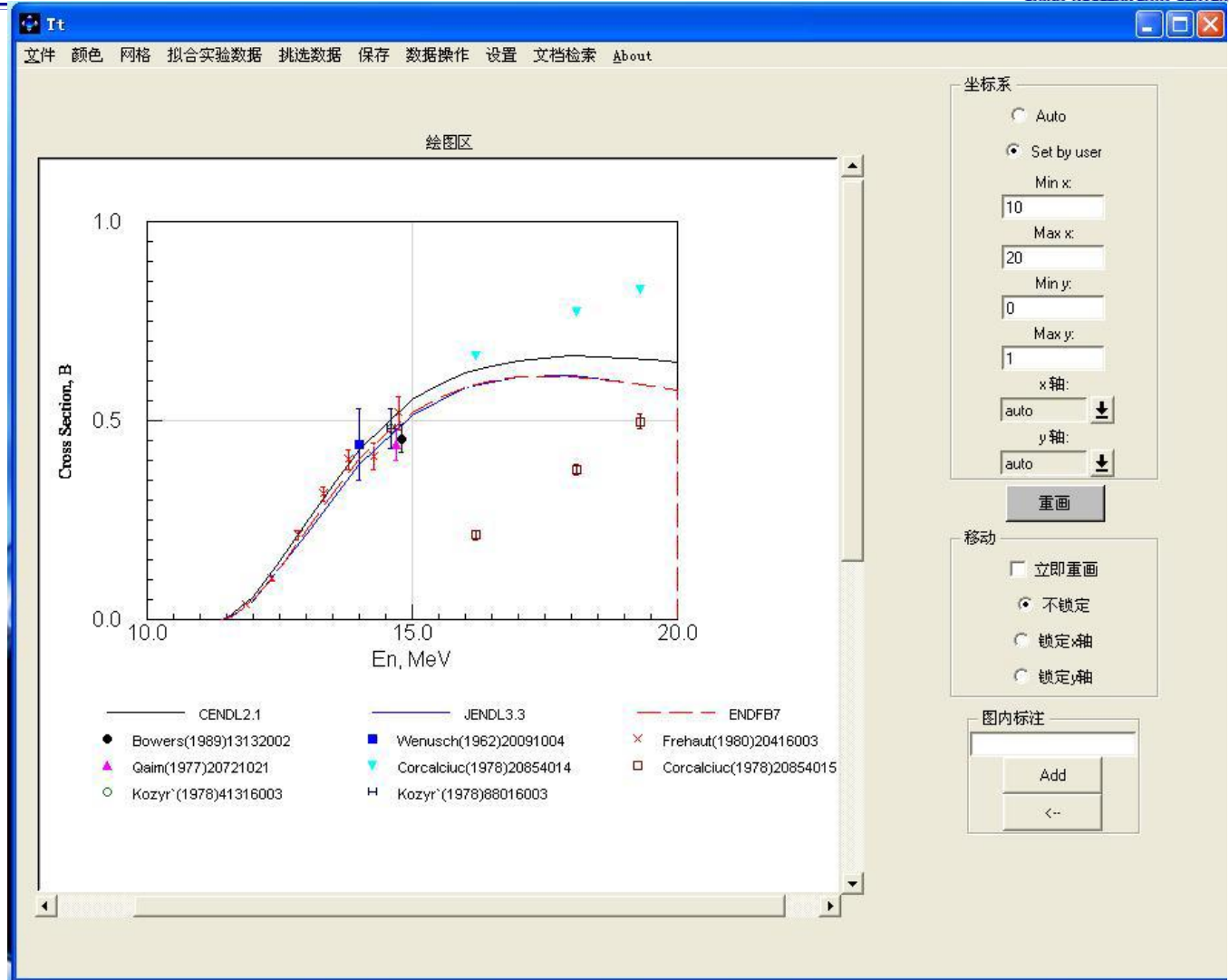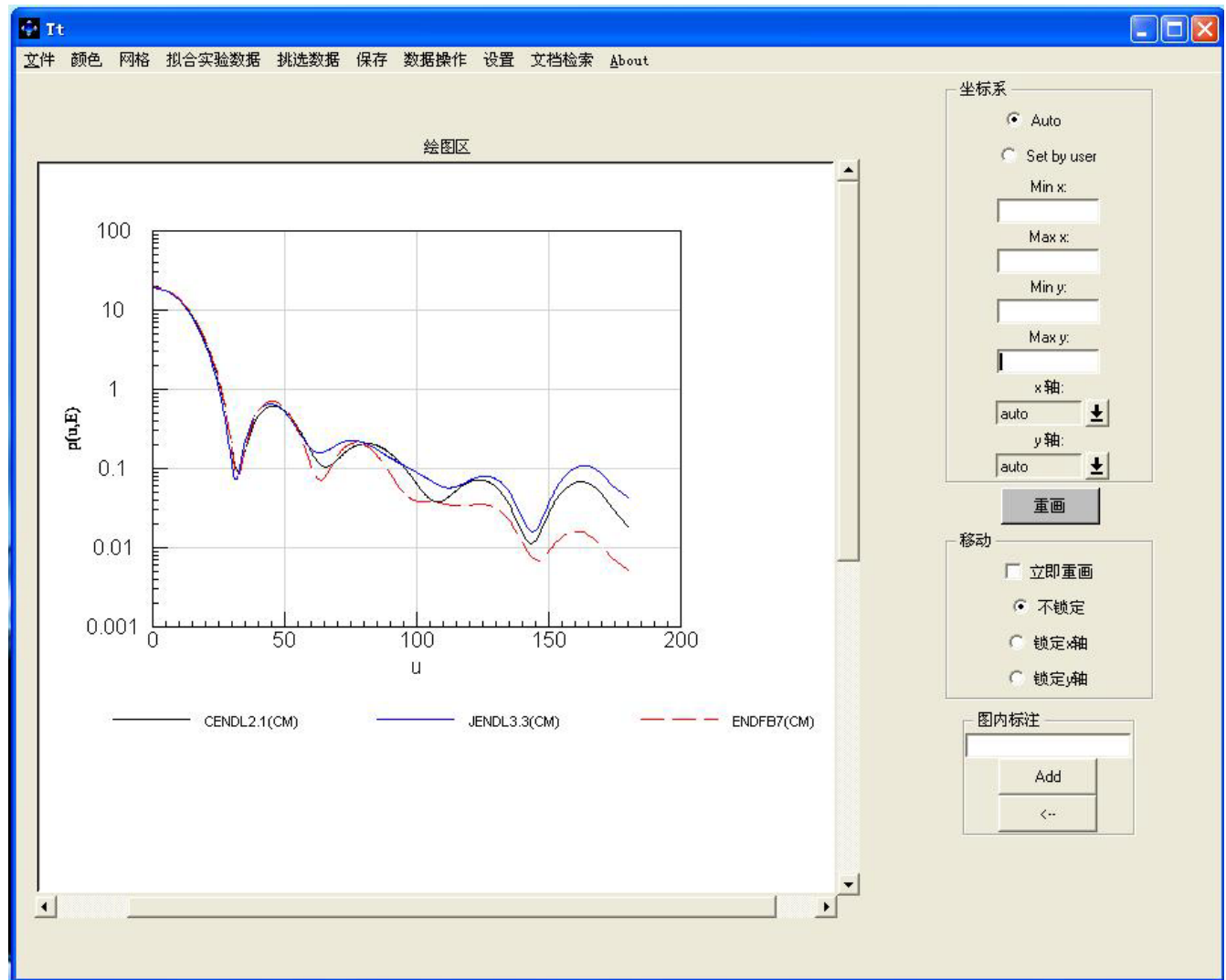
3.   Examples (8/9)

3.2   Plotting of the elastic scattering angular distributions for ^{56}Fe(n,el)
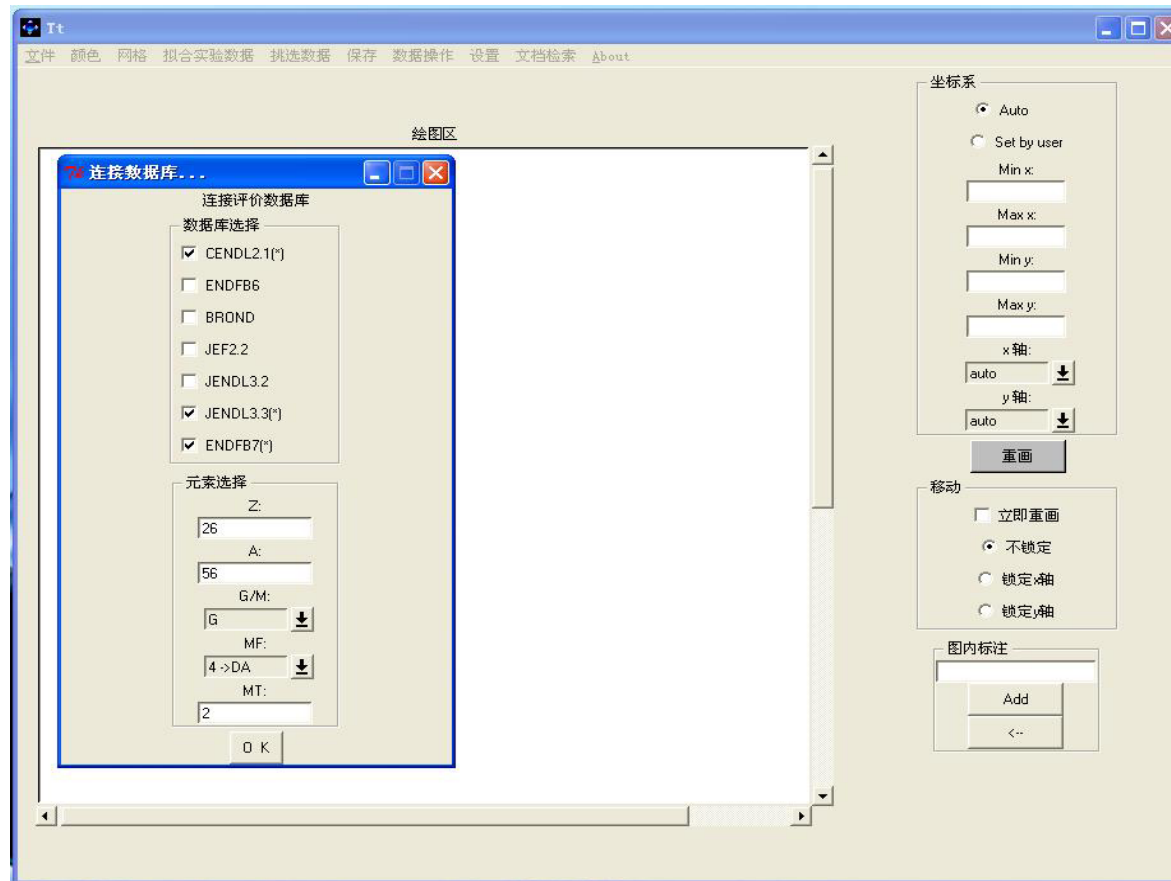
3. Examples (9/9)

Plotting

4. Conclusions

- This is the **version-1.0** of the TT, and the **version-2.0** is under development.

- New features in the version-2.0:

① Additional improvements to the treatment of the double-differential cross sections and the discrete levels data.

② Redefine the format of output files.

③ ……

THANK YOU!!!