Quick user guide for BrIcc within Saisinuc

(ChD – january 2008)

BrIcc configuration for use in Saisinuc

First of all, you need to install the DOS version of BrIcc (BrIccDDEPsetup.exe).
This installation creates the paths and environment variables used by BrIcc.
During the first start of BrIcc in Saisinuc, you'll have to indicate the directory where you installed BrIcc.
(Nota : this action is also possible thanks to the "External Programs" button on the main Saisinuc page.)

How to use BrIcc from Saisinuc

- From the "GAMMA emissions of the daughter" form, for a given gamma transition, click on"BrIcc calculation" button (Fig.1).
- At least, the "Multipolarity" field must be set, otherwise the software will remind you to do it (Fig.2).
- In case of mixed multipolarities (e.g.: M1+1,9%E2), you'll have to check that the Delta value is consistent with this mixture (here: $\delta = 0.14$) (Fig.3). If the Delta value isn't set, BrIcc will assume it to be 1 (i.e. will consider a 50/50 mixture).
- A new window will appear, showing the calcultation results for the 4 possible interpolation modes used in BrIcc (Frozen Orbital (default choice), No Hole, Rösel, Hager & Seltzer) and the information, errors or warnings eventually generated by BrIcc (Fig.5).
- A text file, where the results will be stored is automatically created. Its name is composed from then name of the nuclide and the transition energy (rounded), as well as the directory path where the BrIcc code is installed (e.g.: C:\codes\BrIcc\Eu152_125keV.txt). This filename can be changed.
  (Nota: even if the results of BrIcc aren't stored in Saisinuc, this file will be saved.)
- You can then choose between:
  - select an interpolation mode, then import data into database ("Put into Database" button) or
  - quit whitout database modifications. ("Exit" button)
- If you click on the "Put into Database" button, chosen data will be displayed in the "GAMMA emissions of the daughter" form, replacing the older ones. A dialog box will open asking whether to validate or not this change (Fig.4).
- In all cases, the results text file will be saved, eventually replacing an existing file with the same name.

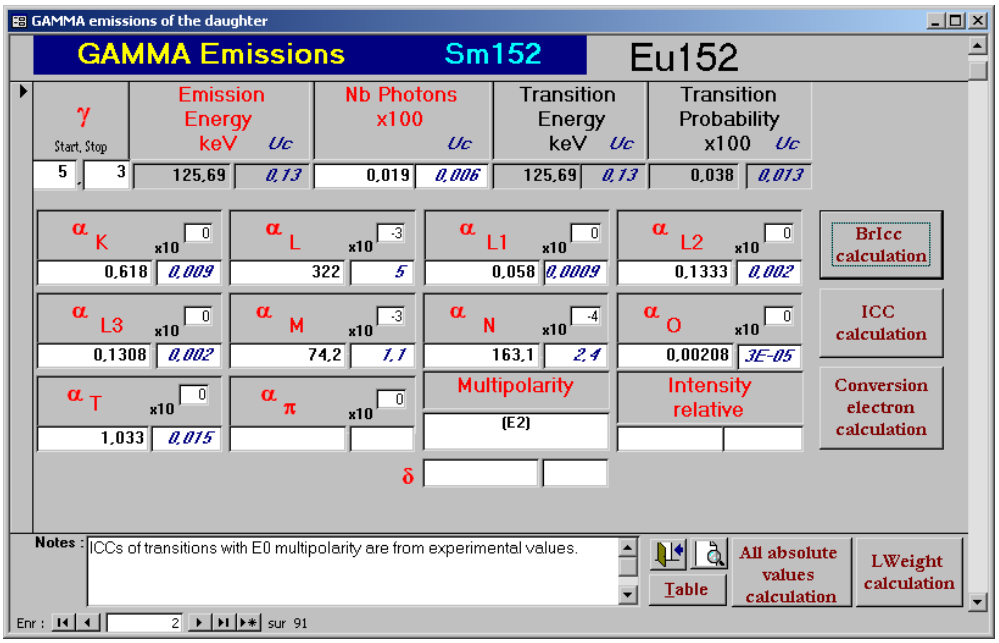


Fig.1

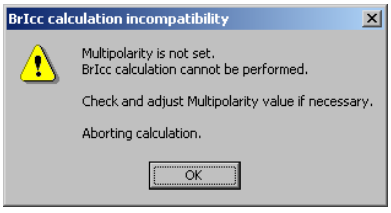


Fig.2

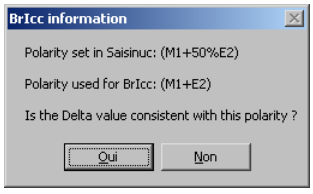


Fig.3

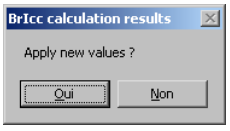


Fig.4

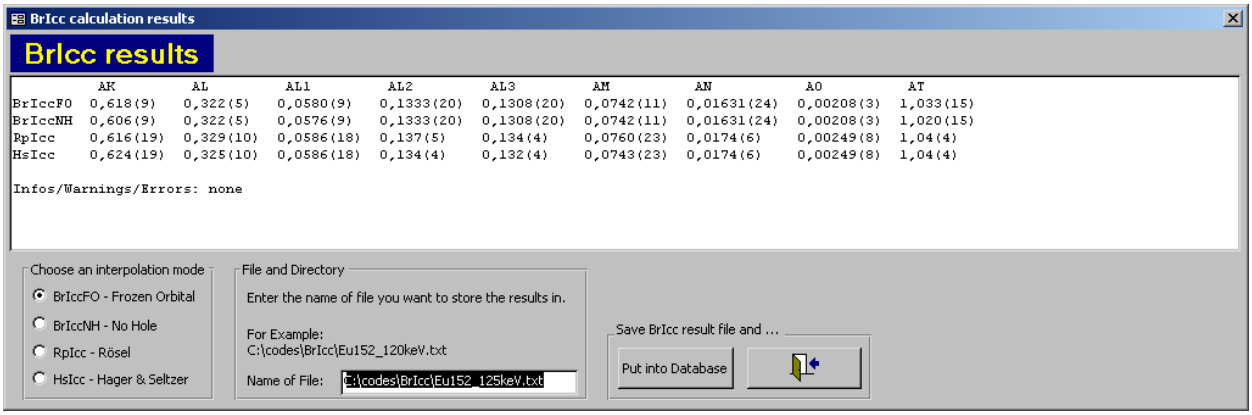

BrIcc calculation results
BrIcc results
AK AL AL1 AL2 AL3 AM AN AO AT
BrIccFO 0,618(9) 0,322(5) 0,0580(9) 0,1333(20) 0,1308(20) 0,0742(11) 0,01631(24) 0,00208(3) 1,033(15)
BrIccNH 0,606(9) 0,322(5) 0,0576(9) 0,1333(20) 0,1308(20) 0,0742(11) 0,01631(24) 0,00208(3) 1,020(15)
RpIcc 0,616(19) 0,329(10) 0,0586(18) 0,137(5) 0,134(4) 0,0760(23) 0,0174(6) 0,00249(8) 1,04(4)
HsIcc 0,624(19) 0,325(10) 0,0586(18) 0,134(4) 0,132(4) 0,0743(23) 0,0174(6) 0,00249(8) 1,04(4)
Infos/Warnings/Errors: none
Choose an interpolation mode
BrIccFO - Frozen Orbital
BrIccNH - No Hole
RpIcc - Rösel
HsIcc - Hager & Seltzer
File and Directory
Enter the name of file you want to store the results in.
For Example:
C:\codes\BrIcc\Eu152_120keV.txt
Name of File:
c:\codes\BrIcc\Eu152_125keV.txt
Save BrIcc result file and ...
Put into Database

Fig.5