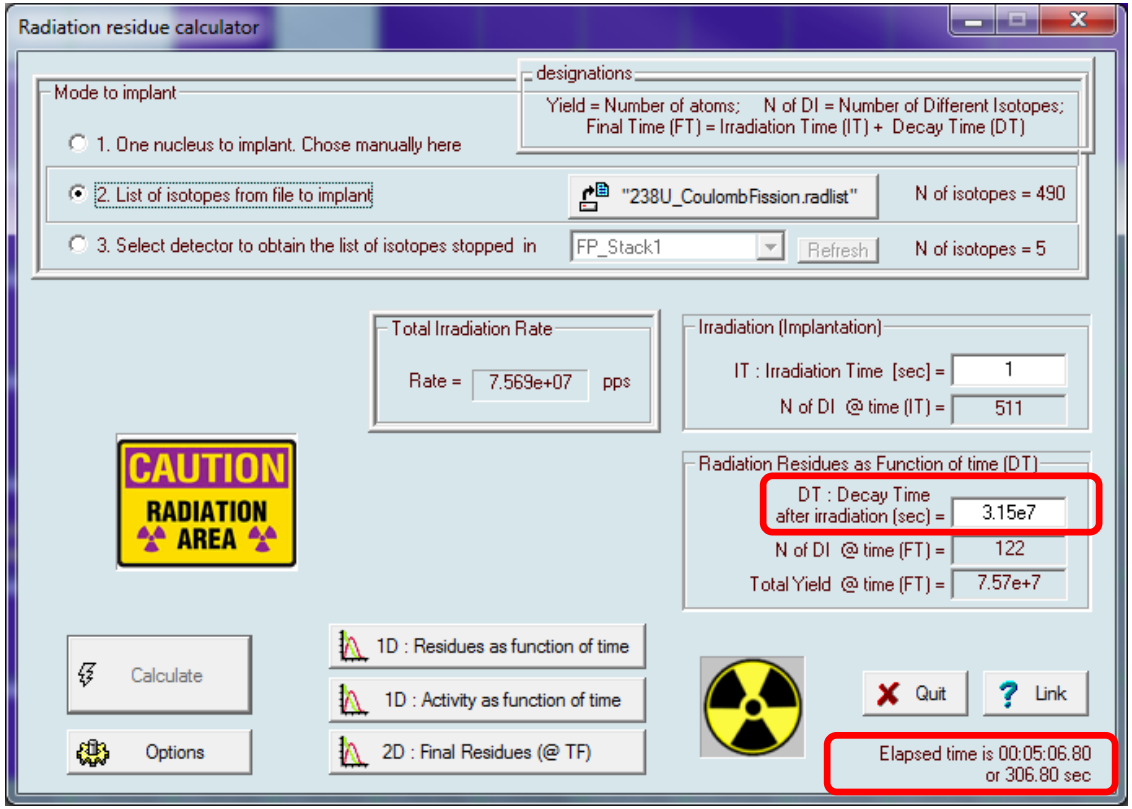
^{238}U fission case calculation : version from 08/01/16

File: http://lise.nscl.msu.edu/9_10/radiation/238U_CoulombFission.radlist

This file has been produced by LISE^{++} with next settings and Coulomb Fission mechanism



→ **Decay time 1 year**

→ **Takes 5 minutes**

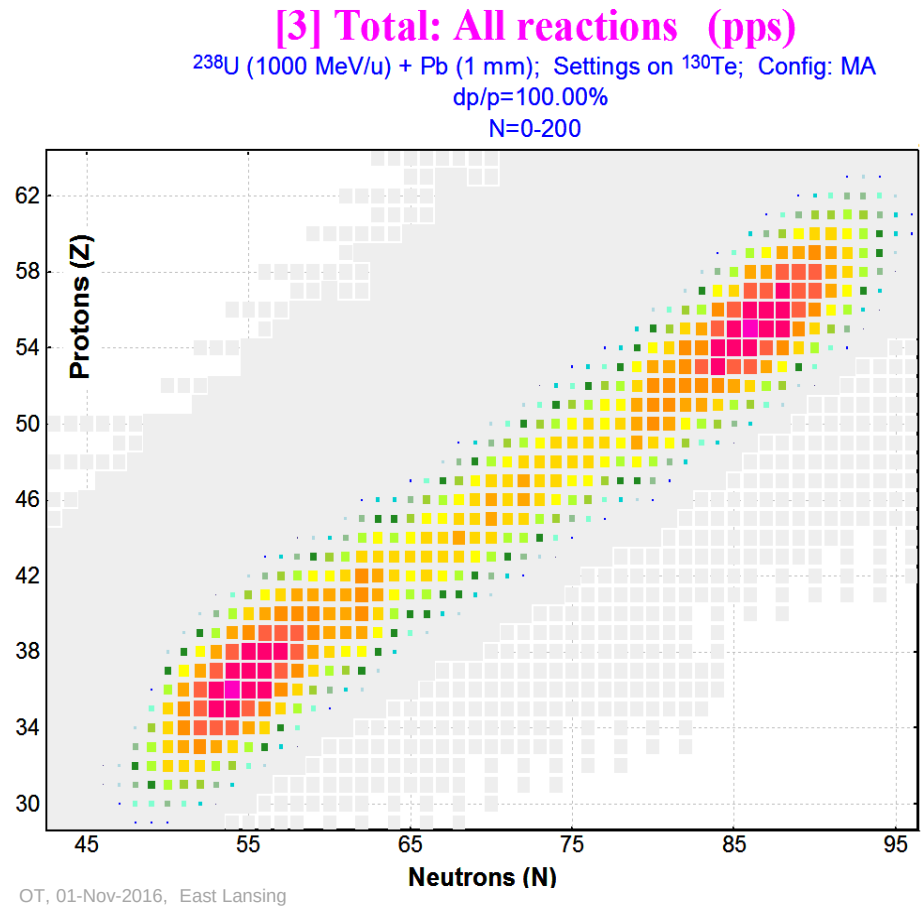
^{238}U fission case calculation

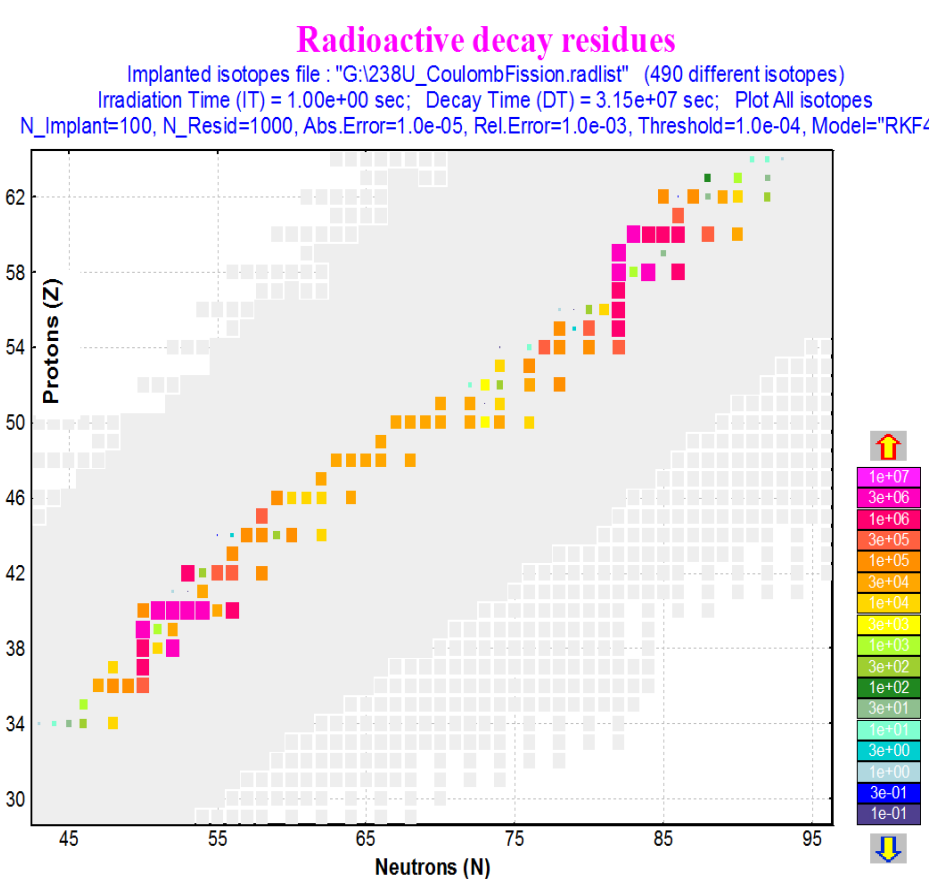
Implanted isotopes

(number of different isotopes is 490)

Radiation Residues after 1 year decay time

(number of different isotopes is 122)



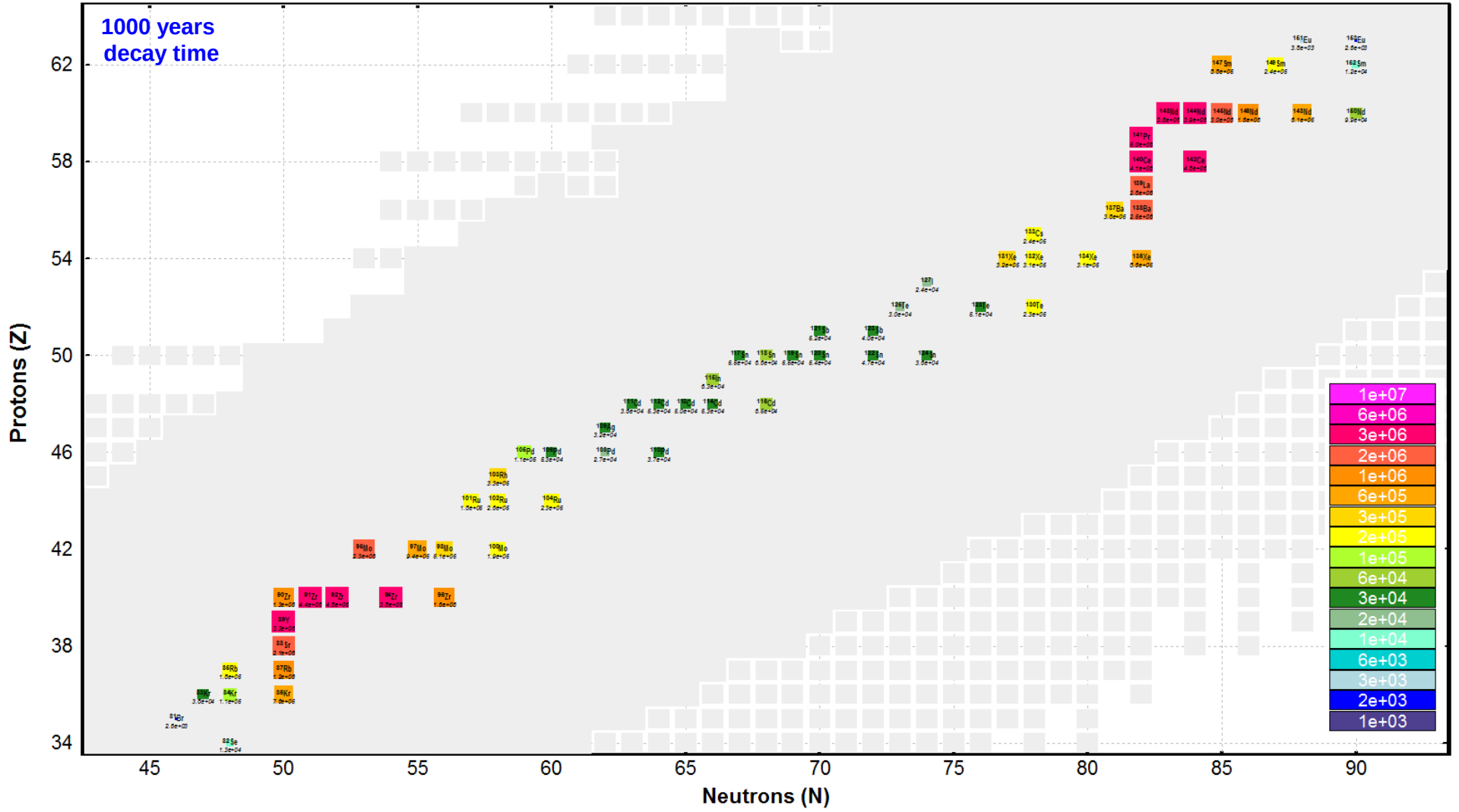


^{238}U fission case calculation : 1000 years decay time

Only stable residues

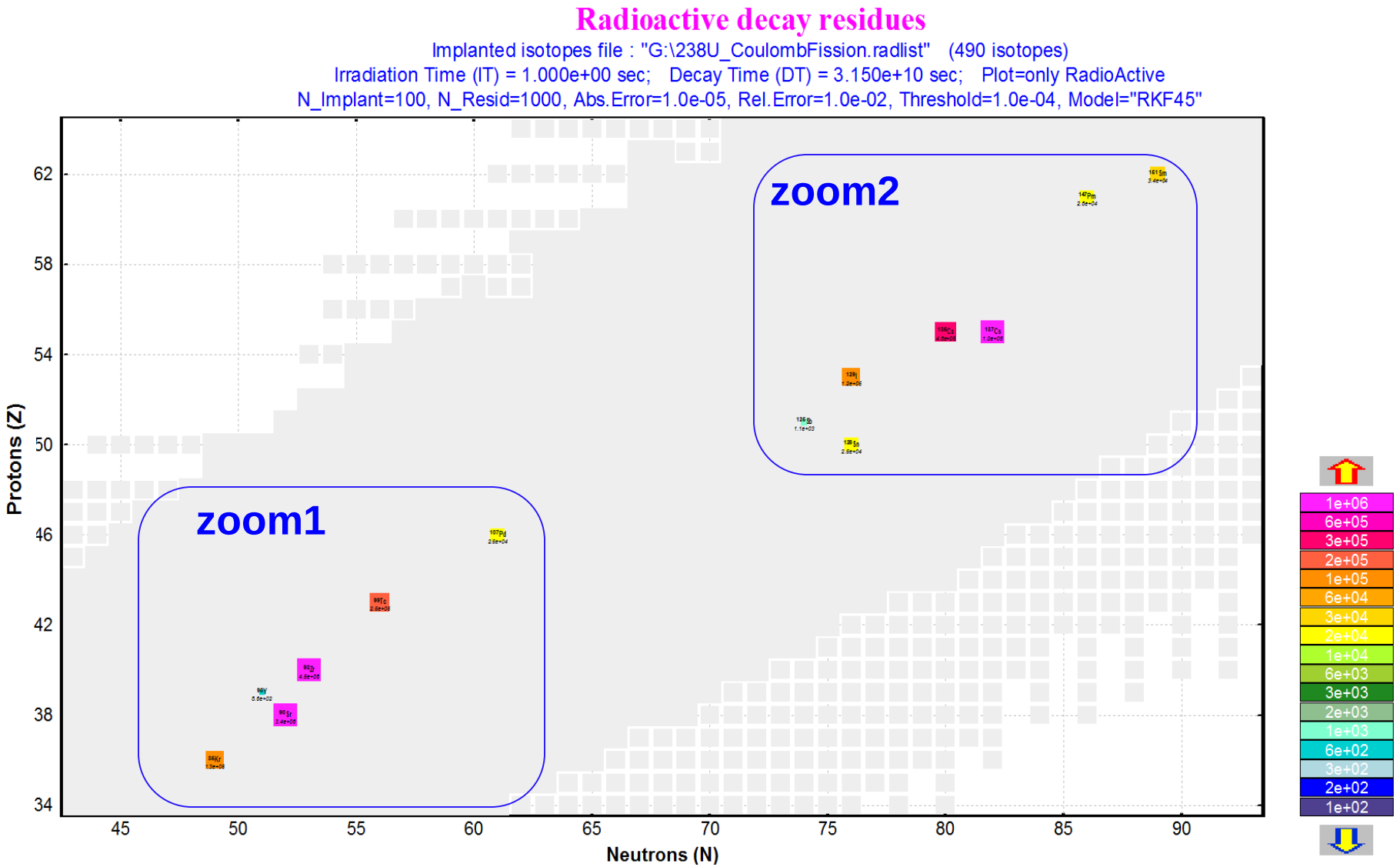
Radioactive decay residues

Implanted isotopes file : "G:\238U_CoulombFission.radlist" (490 isotopes)
Irradiation Time (IT) = 1.000e+00 sec; Decay Time (DT) = 3.150e+10 sec
N_Implant=100, N_Resid=1000, Abs.Error=1.0e-06, Rel.Error=1.0e-03, Threshold=1.0e-05, Model="RKF45"



^{238}U fission case calculation : 1000 years decay time

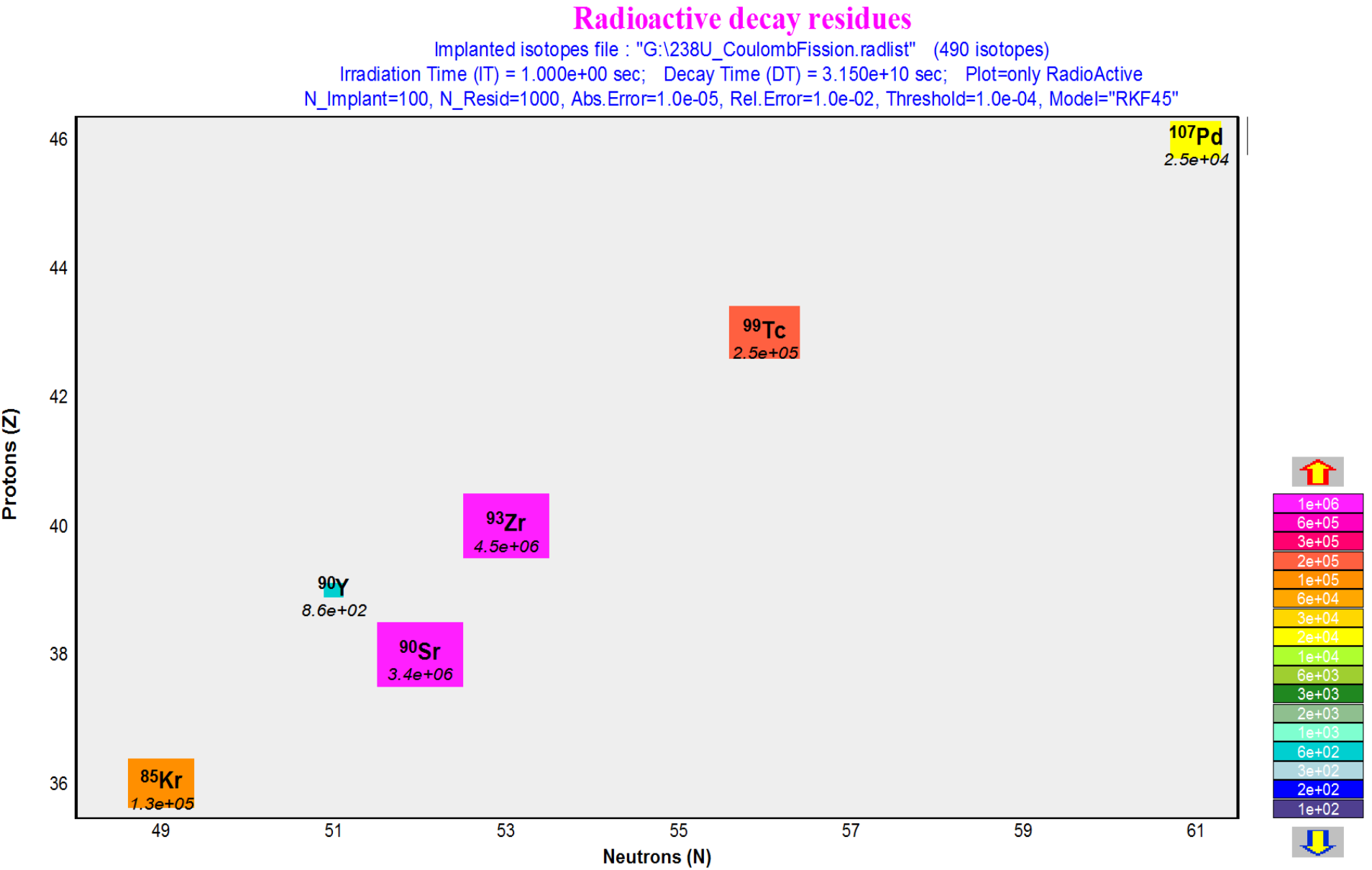
Only radioactive residues



^{238}U fission case calculation : 1000 years decay time

zoom1

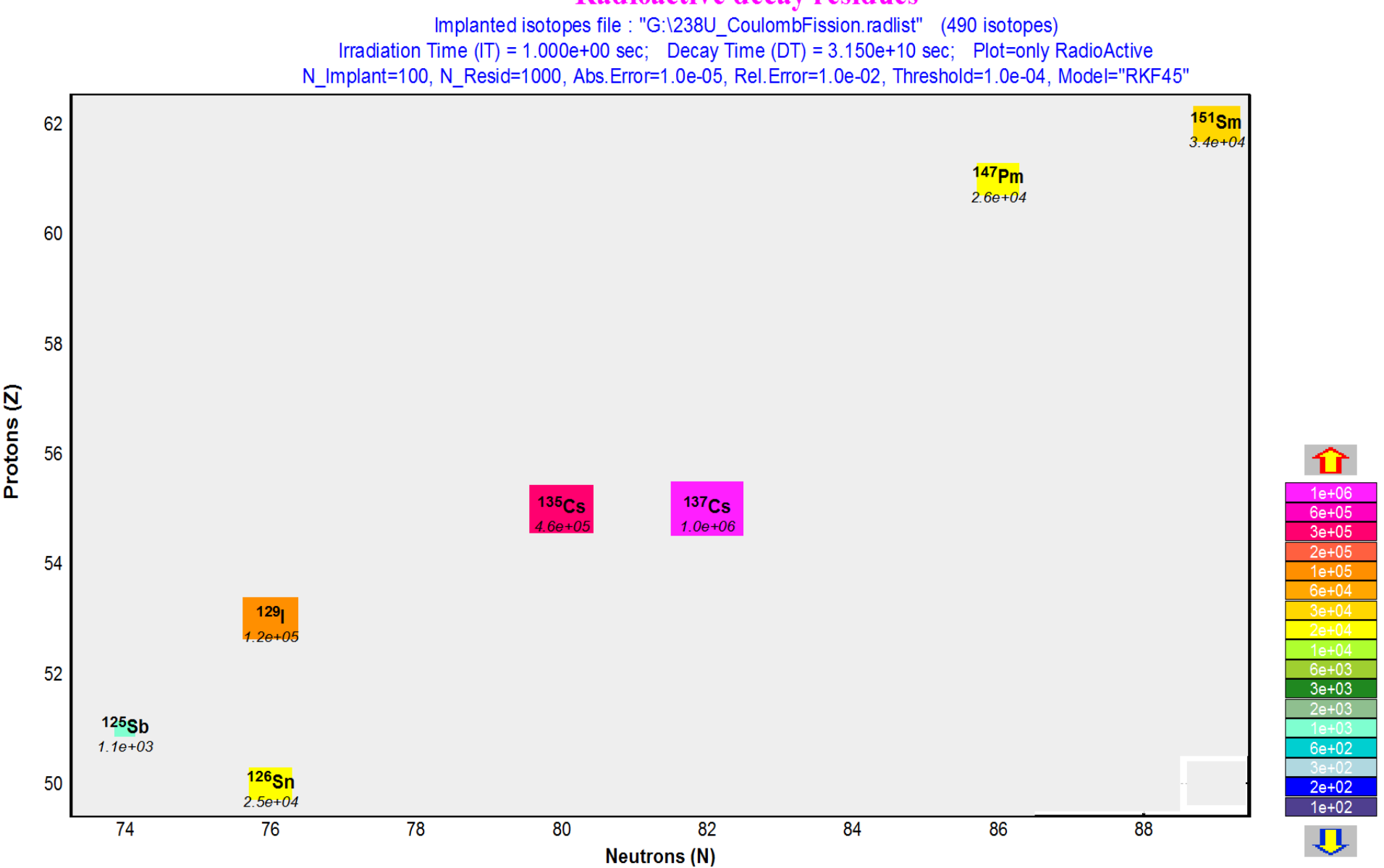
Only radioactive residues



^{238}U fission case calculation : 1000 years decay time

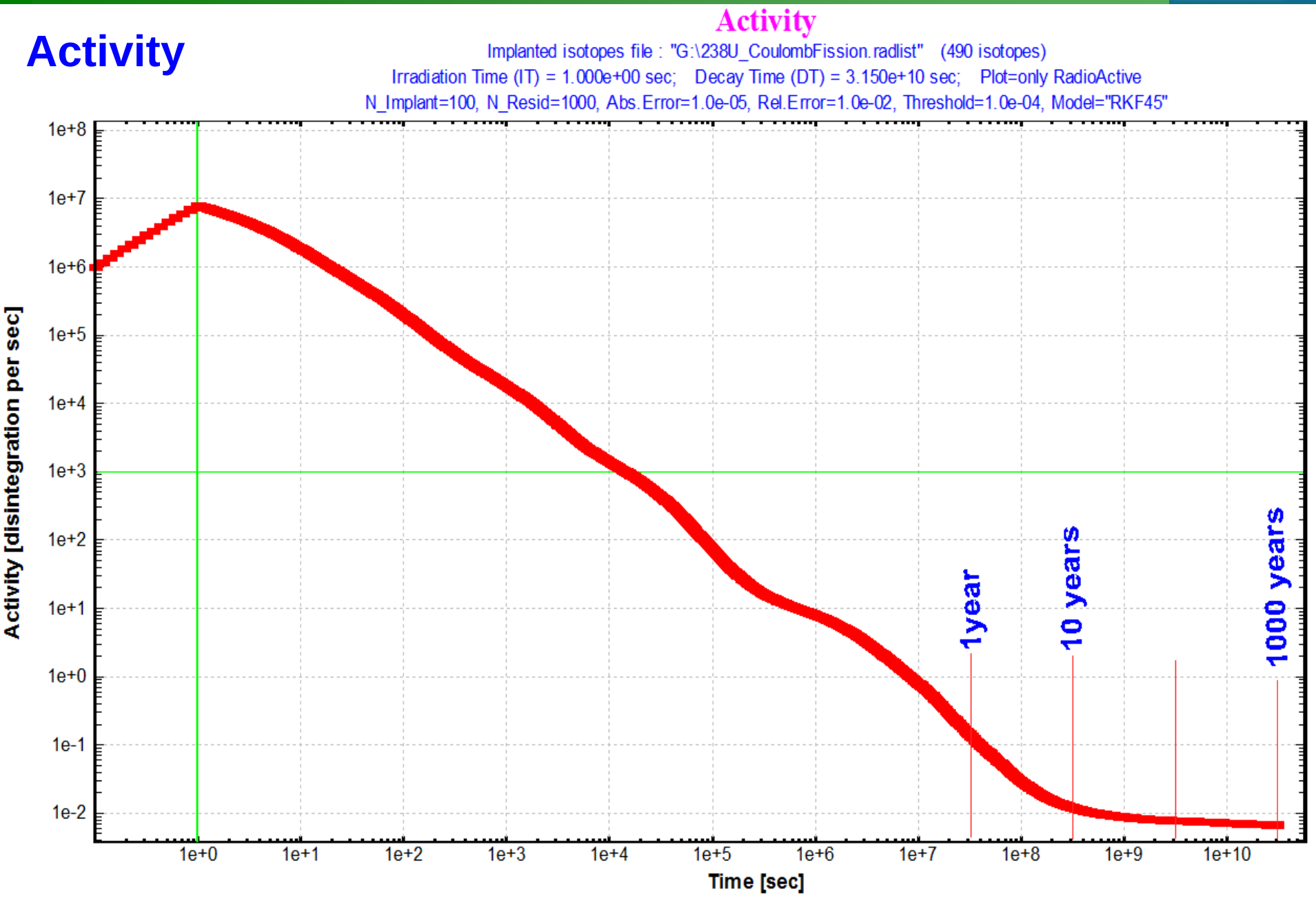
zoom2

Only radioactive residues



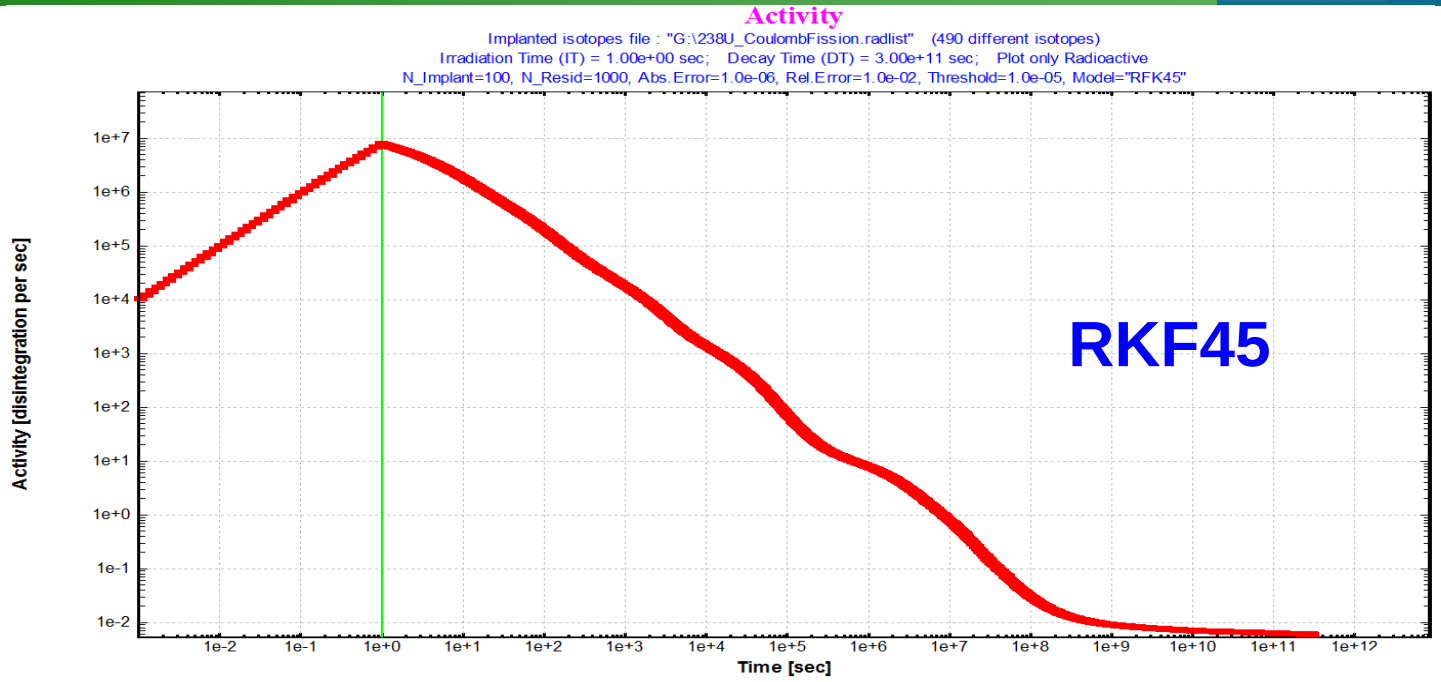
^{238}U fission case calculation : 1000 years decay time

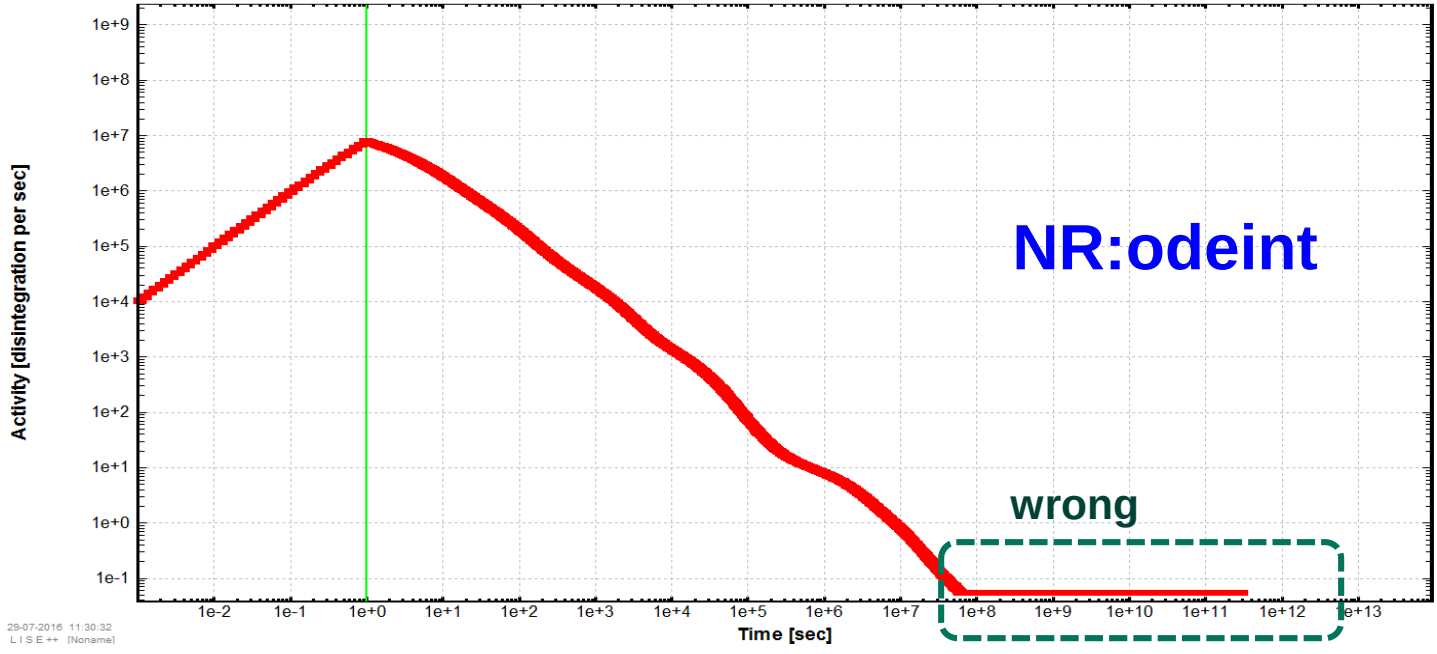
Activity



^{238}U fission case calculation : 10 000 years decay time

Activity





ODE → not finished

Option	Value	Description	Default value
N_Implant	100	number of points : Irradiation	100
N_Decay	1000	number of points : DECAY	100
AbsError	1.000e-06	absolute error tolerance	1e-11
RelError	1.000e-02	relative error tolerance	1e-03
Y_thrshld	1.000e-05	Minimum yield value	1e-10

^{238}U fission case calculation : 100 years decay time

50 More intense radioactive residues during 100 years decay time

Only radioactive residues