

Secondary Reactions, Silent mode



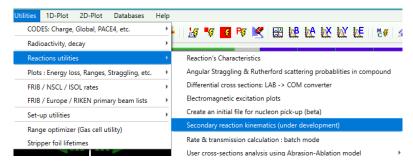
v.17.5 05/05/24

- Kinematics of secondary reaction products
- Transmission calculation option: List of Isotopes
- Calculation results: Rates table
- Silent mode
- Rates calculation from command string
- Fragmentation CS plots: plots selection to draw
- All modifications v.17.3.2-17.5.1

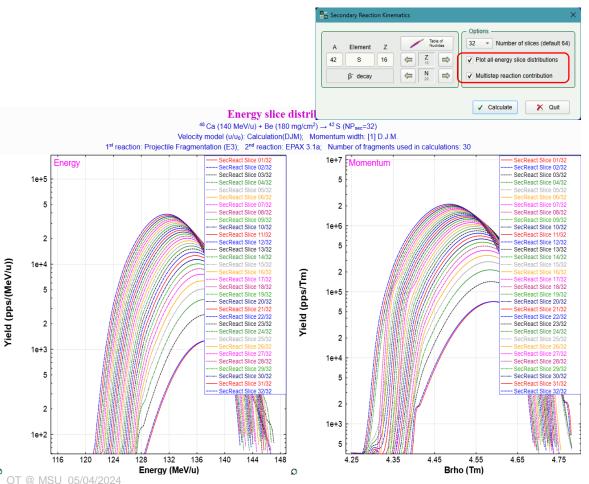


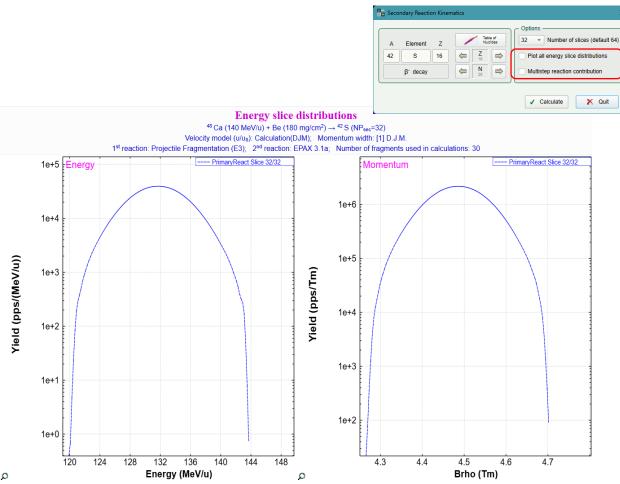
Kinematics of secondary reaction products





Sorry! The current dialog is still under development, in order to avoid confusion with calculation results, please,



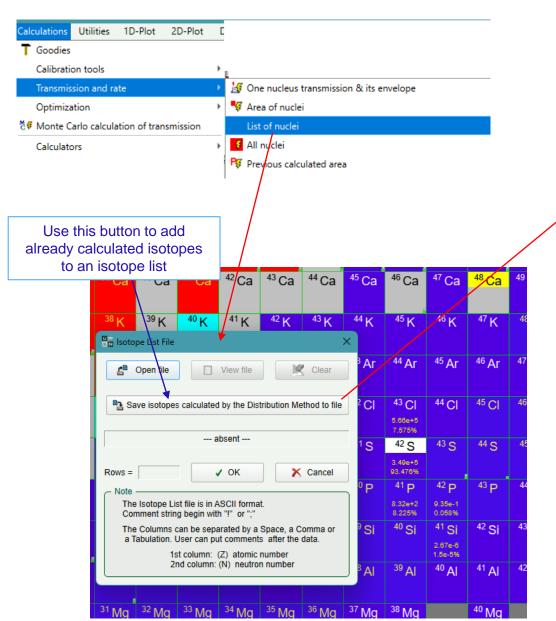


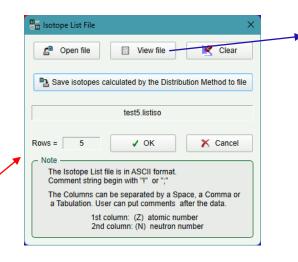


Transmission calculation option: List of Isotopes



y 9 **y**

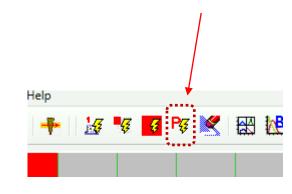




16+ 17 26 17+ 17+ 17+ 17+ 15 26 15+ 15+ 15+ 15+ 27 15+ 15+ 14+

Print PrintView Consolas

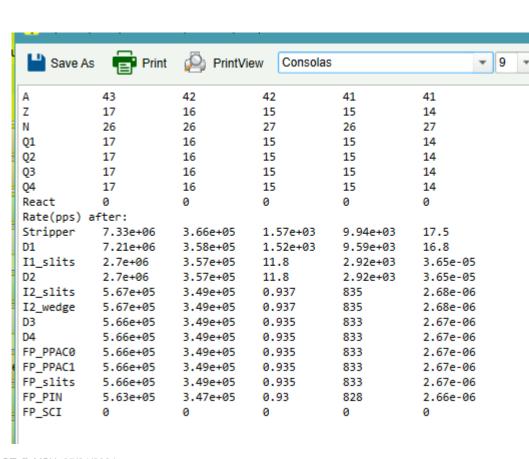
Use the "previous calculated area" to repeat Transmission calculation with the List of Isotopes

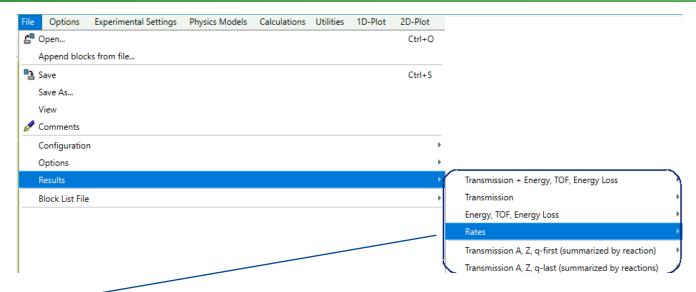


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Calculation results: Rates table





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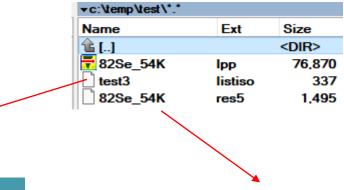


Silent mode, Rate results



- -s : silent mode. LISE will be closed after calculation
- If no "-listiso" key, then FOI rates will be calculated
- -s & -listiso cannot be used without LISE file name
- Rate result file = LISE_filename + ".res5"

Command line arguments: c:/temp/test/82Se_54K.lpp -listiso=c:/temp/test/test3.listiso -s



Lister - [c:\temp\test\test3.listiso]									
File	Edit	Options	Encoding	Help					
; Z		N	Reacti	on	Q1	Q2			
18		30	R O	18+	18+	18+	18+		
16		30	RØ	16+	16+	16+	16+		
16		32	RØ	16+	16+	16+	16+		
18		32	RØ	18+	18+	18+	18+		
18		34	RØ	18+	18+	18+	18+		
19		35	RØ	19+	19+	19+	19+		
20		36	RØ	20+	20+	20+	20+		
21		35	RØ	21+	21+	21+	21+		
21		37	RØ	21+	21+	21+	21+		
20		34	RØ	20+	20+	20+	20+		
19		33	RØ	19+	19+	19+	19+		
17		33	RØ	17+	17+	17+	17+		

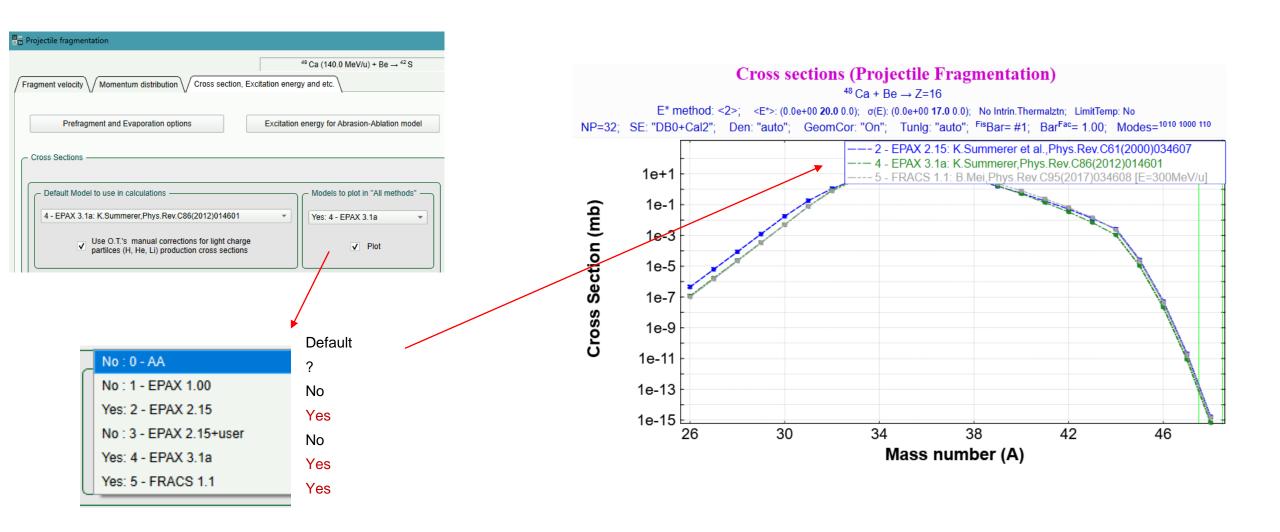
Α	58	56	56	54	54	52	52	50	48	50	48	46
Z	21	21	20	20	19	19	18	18	18	17	16	16
N	37	35	36	34	35	33	34	32	30	33	32	30
Q1	21	21	20	20	19	19	18	18	18	17	16	16
Q2	21	21	20	20	19	19	18	18	18	17	16	16
Q3	21	21	20	20	19	19	18	18	18	17	16	16
Q4	21	21	20	20	19	19	18	18	18	17	16	16
React	0	0	0	0	0	0	0	0	0	0	0	0
Rate(pps) a	fter:											
Target	0.108	14	0.0189	3.19	0.00314	0.696	0.000499	0.145	24.4	7.56E-05	1.09E-05	0.00559
Stripper	0.108	14	0.0189	3.19	0.00314	0.696	0.000499	0.145	24.4	7.56E-05	1.09E-05	0.00559
D1	0.105	13.5	0.0182	3.04	0.00297	0.65	0.000463	0.133	21.7	6.84E-05	9.74E-06	0.00487
I1_slits	0.0663	0.333	0.0157	0.438	0.00278	0.258	0.000374	0.0908	1.3	3.37E-05	1.79E-06	0.004
D2	0.0663	0.333	0.0157	0.438	0.00278	0.258	0.000374	0.0908	1.3	3.37E-05	1.79E-06	0.004
I2_slits	0.0376	0.0384	0.0125	0.116	0.00241	0.123	0.000284	0.0624	0.332	2.00E-05	7.86E-07	0.00311
I2_wedge	0.0376	0.0384	0.0125	0.116	0.00241	0.123	0.000284	0.0624	0.332	2.00E-05	7.86E-07	0.00311
D3	0.0375	0.0383	0.0124	0.115	0.0024	0.122	0.000283	0.0622	0.33	1.99E-05	7.83E-07	0.0031
D4	0.0375	0.0383	0.0124	0.115	0.0024	0.122	0.000283	0.0622	0.33	1.99E-05	7.83E-07	0.0031
FP_PPAC0	0.0375	0.0383	0.0124	0.115	0.0024	0.122	0.000283	0.0622	0.33	1.99E-05	7.83E-07	0.0031
FP_PPAC1	0.0375	0.0383	0.0124	0.115	0.0024	0.122	0.000283	0.0622	0.33	1.99E-05	7.83E-07	0.0031
FP_slits	0.0375	0.0383	0.0124	0.115	0.0024	0.122	0.000283	0.0622	0.33	1.99E-05	7.83E-07	0.0031
FP_PIN	0.0373	0.0381	0.0124	0.114	0.00239	0.122	0.000281	0.0618	0.328	1.98E-05	7.78E-07	0.00308
FP SCI	0	0	0	0	0	0	0	0	0	0	0	0

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Fragmentation CS plots: plots selection to draw





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All modifications v.17.3.2-17.5.1



17.3.2	03/25/24 Secondary reaction kinematics: development started	
17.3.3	03/25/24 Z & N values in CN-dialogs	
17.3.4	03/26/24 Migration to Qt v.6.6.2	
17.3.5	03/27/24 L_Trans_Wedge : corrections in the shift position case	17.4.13 05/02/24 SpecialSilentMode (GSI request) "-s"
17.3.6	03/27/24 discovery iso-file for updated based on https:frib.msu.edu/public/nuclides	run FOI transmission, save results
17.3.7	03/27/24 discovery project link from LISE	17.4.14 05/02/24 Tong's patch manually has been merged
17.3.8	03/27/24 discovery links are modified for chen's folders	17.4.15 05/03/24
17.3.9	03/27/24 using share_ptr for Celement in o_class_physics.h	Working on Special Silent Mode
17.3.10	03/27/24 revision of Beam scattering in target	17.4.16 05/03/24 Transmission: List of Isotopes (shell)
17.4.0	03/27/24 middle version was changed	17.4.17 05/03/24
17.4.1	04/12/24 Copy/Past distributions in Graph : no disable issue, warning if empty	Revision of trans prev area 17.4.18 05/03/24
17.4.2	04/12/24 compiled with qt v.6.7	Transmission: List of Isotopes (completed)
17.4.3	04/17/24 no plots after target, only after stripper	17.4.19 05/03/24 Menu->Results->Rates
17.4.4	04/20/24 Fragmentation CS plot all methods : selection to plot	17.4.20 05/03/24
17.4.5	04/20/24 Fragmentation CS plot correction for error plotting	Menu->Results->*** no more "print"
17.4.6	04/20/24 Secondary reactions : sum of lost	17.4.21 05/03/24 Results "Rate" completed
17.4.7	04/21/24 Secondary reactions dialog update	17.4.22 05/04/24
17.4.8	04/29/24 update of secondary reaction kinematics	new argument -listiso
17.4.9	04/30/24 DrawThisDist flag for plot statistics	17.5.0 05/05/24 middle version changed
17.4.10	04/30/24 Secondary Reactions Kinematics dialog update for plot Al and Numder of Slices	17.5.1 05/05/24
17.4.11	04/30/24 energy loss with trans_after_lose in Secondary Reactions Kinematics	correction in secondary reactions kinematics for the primary reaction mode
17.4.12	05/01/24 password energy for the Secondary Reactions Kinematics dialog	