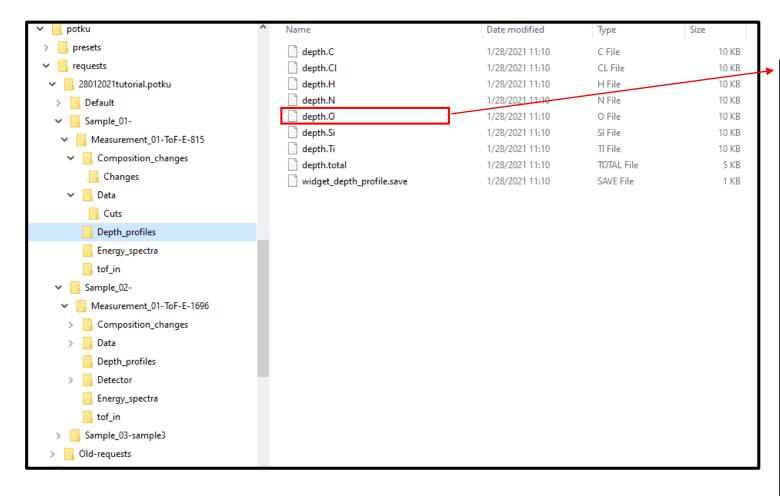
## ToF-ERDA analysis software Potku

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Depth profile Output files explained

## Potku – Data – Depth profiles



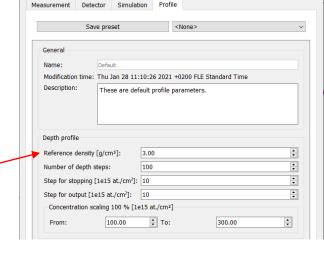
	_					
depth.O - Note	pad					
File Edit Format	t View Help					
-95.000	-3.426	-11.420	0.00577	2.72372e+26	0.00333	3
-85.000	-3.383	-11.277	0.00000	0.00000e+00	0.00000	0
-75.000	-3.175	-10.584	0.00192	9.07907e+25	0.00192	1
-65.000	-2.922	-9.740	0.00192	9.07907e+25	0.00192	1
-55.000	-2.538	-8.461	0.00192	9.07907e+25	0.00192	1
-45.000	-2.101	-7.002	0.00000	0.00000e+00	0.00000	0
-35.000	-1.741	-5.805	0.00000	0.00000e+00	0.00000	0
-25.000	-1.181	-3.938	0.01154	5.44744e+26	0.00471	6
-15.000	-0.786	-2.620	0.02115	9.98698e+26	0.00638	11
-5.000	-0.419	-1.397	0.02692	1.27107e+27	0.00720	14
5.000	0.000	0.000	0.05187	2.44871e+27	0.00963	29
15.000	0.339	1.129	0.08998	4.24791e+27	0.01312	47
25.000	0.692	2.308	0.06108	2.88360e+27	0.01080	32
35.000	1.110	3.700	0.09891	4.66986e+27	0.01372	52
45.000	1.511	5.036	0.09099	4.29552e+27	0.01313	48
55.000	1.907	6.357	0.08879	4.19182e+27	0.01295	47
65.000	2.340	7.801	0.07342	3.46621e+27	0.01176	39
75.000	2.765	9.218	0.04127	1.94823e+27	0.00880	22
85.000	3.227	10.757	0.03738	1.76494e+27	0.00836	20
95.000	3.689	12.296	0.03165	1.49422e+27	0.00768	17
105.000	4.157	13.857	0.02226	1.05087e+27	0.00643	12
115.000	4.631	15.436	0.03142	1.48360e+27	0.00762	17
125.000	5.099	16.996	0.02025	9.55811e+26	0.00610	11
135.000	5.566	18.554	0.03118	1.47200e+27	0.00756	17
145.000	6.046	20.153	0.01281	6.04564e+26	0.00484	7
155.000	6.530	21.768	0.01456	6.87292e+26	0.00515	8
165.000	7.006	23.352	0.02722	1.28508e+27	0.00703	15
175.000	7.473	24.909	0.03435	1.62173e+27	0.00788	19
185.000	7.937	26.457	0.02342	1.10564e+27	0.00650	13
195.000	8.417	28.058	0.02512	1.18603e+27	0.00671	14
205.000	8.858	29.527	0.02682	1.26636e+27	0.00693	15
215.000	9.347	31.158	0.03029	1.43005e+27	0.00735	17
225.000	9.803	32.676	0.03905	1.84371e+27	0.00833	22
235.000	10.254	34.179	0.03536	1.66915e+27	0.00791	20
245 000	10 721	35 760	0.04593	2 4626427	0.00000	26

Depth profiles – explanation of columns

6 depth.O - Notepad -11.420 0.00333 -3.426 0.00577 2.72372e+26 -3.383 -11.277 0.00000 0.00000e+00 0.00000 -85.000 -75,000 -3.175 -10.584 0.00192 9.07907e+25 0.00192 -65.000 -2.922 -9.740 0.00192 9.07907e+25 0.00192 0.00192 -55.000 -2.538-8.461 9.07907e+25 0.00192 -45.000 -2.101-7.002 0.00000 0.00000e+00 0.00000 -35,000 -1.741-5.805 0.00000 0.00000e+00 0.00000 -25.000 -1.181-3.938 0.01154 5.44744e+26 0.00471 -15.000 -0.786 -2.620 0.02115 9.98698e+26 0.00638 -0.419 -5.000 -1.3970.02692 1.27107e+27 0.00720 29 5.000 0.000 0.000 0.05187 2.44871e+27 0.00963 15.000 0.339 1.129 0.08998 4.24791e+27 0.01312 32 52 25.000 2.308 2.88360e+27 0.01080 0.692 0.06108 35,000 1.110 3.700 0.09891 4.66986e+27 0.01372 45.000 5.036 0.09099 4.29552e+27 0.01313 48 47 55.000 1.907 6.357 0.08879 4.19182e+27 0.01295 2.340 3.46621e+27 65.000 7.801 0.07342 0.01176 75.000 2.765 9.218 0.04127 1.94823e+27 0.00880 85.000 3.227 10.757 0.03738 1.76494e+27 0.00836 17 12 95.000 3.689 12.296 0.03165 1.49422e+27 0.00768 0.00643 105.000 4.157 13.857 0.02226 1.05087e+27 115.000 4.631 15.436 0.03142 1.48360e+27 0.00762 125.000 16.996 0.02025 9.55811e+26 0.00610 18.554 1.47200e+27 0.00756 17 135.000 0.03118 145.000 6.046 20.153 0.01281 6.04564e+26 0.00484 155.000 6.530 21.768 0.01456 6.87292e+26 0.00515 165.000 7.006 23.352 0.02722 1.28508e+27 0.00703 1.62173e+27 7.473 0.03435 0.00788 175.000 24.909 185.000 7.937 26.457 0.02342 1.10564e+27 0.00650 28.058 195.000 8.417 0.02512 1.18603e+27 0.00671 14 15 205.000 8.858 29.527 0.02682 1.26636e+27 0.00693 215,000 9.347 31.158 0.03029 1.43005e+27 0.00735 32.676 0.03905 0.00833 225.000 1.84371e+27 34,179 0.03536 1.66915e+27 0.00791

Columns explained:

- 1. "X-axis", in 1e15 at./cm2
- 2. "X-axis", in μg/cm2
- 3. "X-axis", in nm, when density is given



The next columns are concentration and uncertainty related

- 4. "Result": Atomic fraction, normalized (sum of concentrations to 100%)
- 5. Same as 4 but without normalization
- 6. "Uncertainty": Column 4 / sqrt(column 7) an (approximative) statistical uncertainty of atomic fraction of column 4.
- 7. **Number of events** contributing to this depth **bin** (to calculate SQRT(N))

## Depth profiles – explanation of colums

