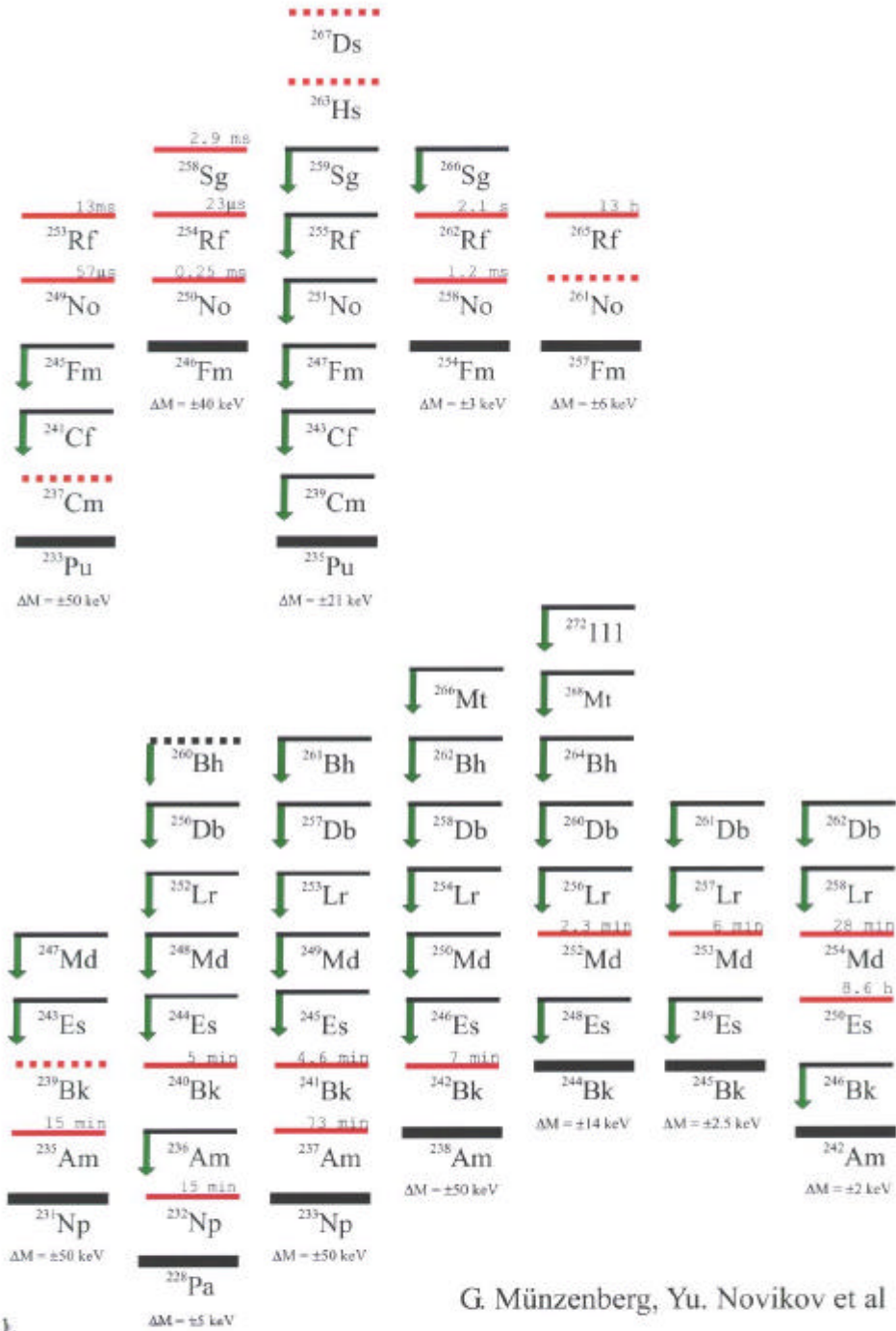


Y. Novikov

Mass measurements

Discussion contribution

“Broken” α -decay chains

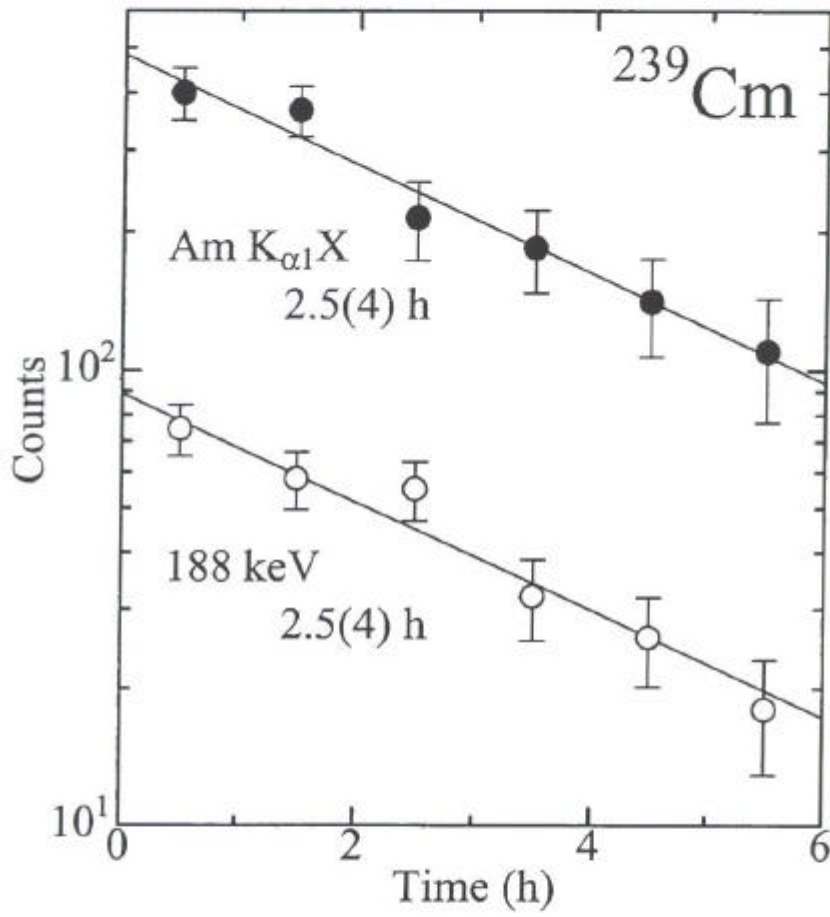


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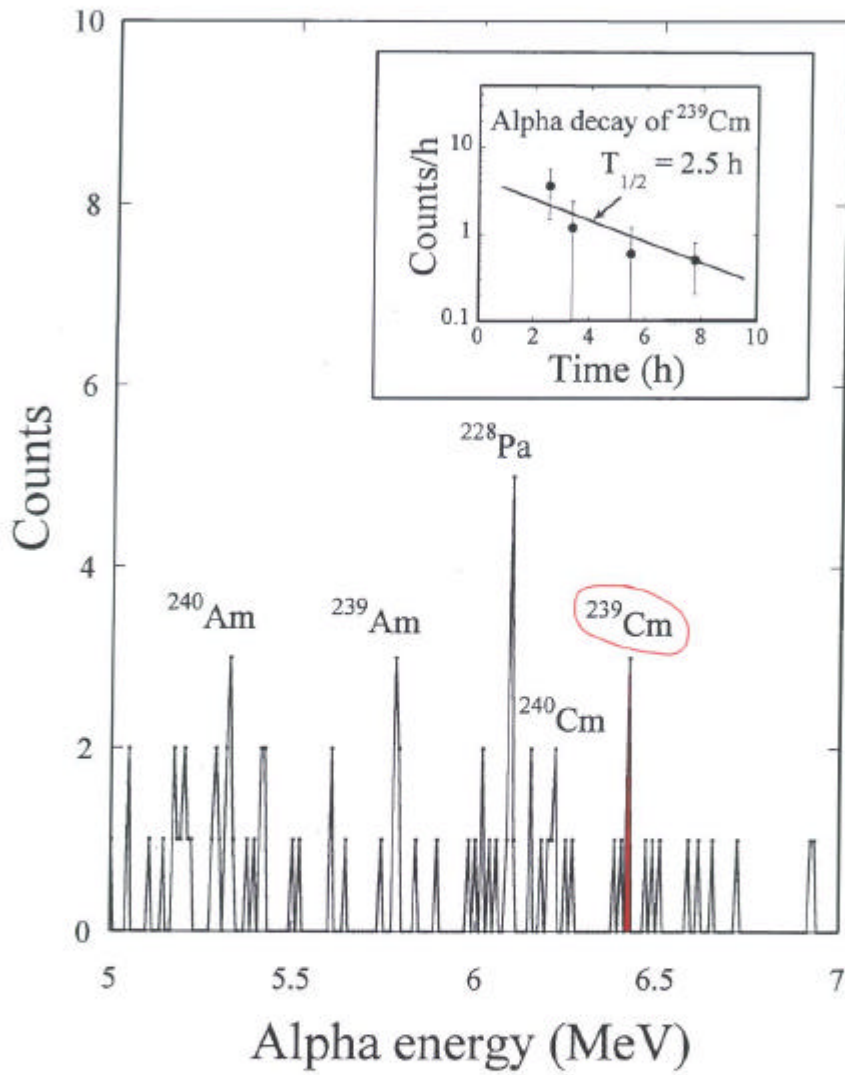
Unknown α -emitters

Nuclide	Q_{α} (keV) AW-2003	Half-life	Expected α - brach.
232 Np	6010 (100)	14.7 min	~ 0.00003
235 Am	6610 (110)	10 min	0.004
237 Cm	6800 (200)	(1000s) β	≤ 0.001
239 Bk	7200 (200)	(100s) β	≤ 0.1
240 Bk	7060 (200)	4.8 min	≤ 0.1
241 Bk	7110 (210)	4.6 min	0.03
242 Bk	6890 (210)	7 min	≤ 0.001
250 Es	6830 (120)	8.6 h	≤ 0.01
252 Md	7900 (200)	2.3 min	< 0.5
253 Md	7700 (210)	6.4 min	≤ 0.3
254 Md	7860 (140)	28 min	≤ 0.1
259 Md	7110 (200)	1.6 h	≤ 0.01
250 No	8950 (200)	0.25 ms	0.0005
258 No	8150 (200)	1.2 ms	0.00001
260 No	7700 (200)	106 ms	0.00003
261 Lr	8140 (200)	39 min	~ 0.5
262 Lr	8010 (200)	3.6 h	~ 0.5
258 Rf	9250 (200)	12 ms	0.01
260 Rf	8900 (200)	21 ms	0.02
262 Rf	8490 (200)	2.3 s	0.01

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