

Krypton

Update : january 13th 2010

Radioactive Beam (half-life)	Charge State	V _{source} (KV)	Intensity (pps)		Min Energy (MeV/nucleon)	Max Energy (MeV/nucleon)	Primary Beam	Primary Beam Power on ECS Target (kW)	Primary Beam Energy (MeV/nucleon)
			LEB	Target*					
⁷² Kr (17s)	+2	18	60-400		0		⁷⁸ Kr	1.1	70.3
⁷² Kr (17s)	+11		2 10 ²	4 10 ¹	1.8	6.3	⁷⁸ Kr	0.4	68.5
⁷³ Kr (27s)	+11		3 to 6 10 ³	6 10 ²	1.8	6.2	⁷⁸ Kr	0.4	68.5
⁷⁴ Kr (11.5min)	+9	25	1.5 10 ⁵	3 10 ⁴	4.4	3.9	⁷⁸ Kr	1.1	70.3
⁷⁴ Kr (11.5min)	+11		6 10 ⁴	1.5 10 ⁴	2.6	2.6	⁷⁸ Kr	0.4	68.5
⁷⁵ Kr (4.3min) [1]	+11		5 10 ⁵	1 10 ⁵	1.8	5.8	⁷⁸ Kr	0.4	68.5
	+12		1.0 10 ⁶	1.5 10 ⁵ [2]	5.5	5.5	⁷⁸ Kr ³³⁺	0.85	70.15
	+13		5 10 ⁵	1.0 10 ⁵	5.5	5.5	⁷⁸ Kr ³³⁺		
⁷⁶ Kr (14.8h)	+9	19	4 10 ⁷	8 10 ⁶	3.8	3.8	⁷⁸ Kr	0.8	70
	+11		3 10 ⁶	6 10 ⁵	2.6	2.6		0.4	68.5
	+11		3 10 ⁶	10 ⁶	4.4	4.4			
	+11	27	10 ⁷	4 10 ⁶	4.4			1.1	70.3
⁷⁷ Kr (74.4min)	+9	19	8 10 ⁷	1.3 10 ⁷	1.8	3.8	⁷⁸ Kr	0.8	70
	+11		3 10 ⁶	6 10 ⁵	1.8	5.5		0.4	68.5
⁷⁹ Kr (35h)	+10	24	4 10 ⁵	8 10 ⁴		3.3	⁷⁸ Kr	1.1	70.3
⁸¹ Kr# (2.3 10 ⁵ yr)	+9	18	2 10 ⁵	4 10 ⁵		3.3	⁷⁸ Kr	1.1	70.3
⁸³ Kr (1.83h)	+10	25	8 10 ³	2 10 ³		3.8	⁷⁸ Kr	1.1	70.3

* Available intensity for the experiment.

Isomeric state T_{1/2} = 13s

[1] Polluted by ⁷⁵As (10⁵ to 10⁶ pps)

[2] Polluted by 5 10⁴ pps of ⁵⁰Cr⁸⁺

Color code :

2.8 10⁷ = extrapolated figures from SIRA experiment from 400 W to 1.4 kW.

2.8 10⁷ = measured figures with SPIRAL.

2.8 10⁷ = expected figures after acceleration (not measured) with 20% transport efficiency.