

Argon

Update : march 19th 2009

Radioactive Beam (half-life)	Charge State	Intensity (pps)		VHT (kV)	Min Energy (MeV/nucleon)	Max Energy (MeV/nucleon)	Primary Beam	Primary Beam Power on ECS Target (kW)	Primary Beam Energy (MeV/nucleon)
		LEB	Target*						
³¹ Ar (15ms)	+3	2 10 ⁰	4 10 ⁻¹		1.8	2.4	³⁶ Ar	1.4	95
	+6	4.4 10 ⁰	1 10 ⁰		2.6	10.2		1.1	
³² Ar (98ms)	+3	5 10 ²	1 10 ²		1.8	2.4	³⁶ Ar	1.4	95
	+9	10 ³	2 10 ²		5.5	18.5		1.1	
³³ Ar (173ms)	+3	1.5 10 ⁴	3 10 ³			2.2	³⁶ Ar	1.4	95
	+5	1.5 10 ⁴	3 10 ³		6.5	6.5		1.4	
	+8	6 10 ⁴	1.2 10 ⁴	30	4.1	15		1.4	
	+8	9.1 10 ⁴	1.8 10 ⁴		4.1	15		1.1	
³⁴ Ar (844ms)	+7	3.8 10 ⁶	7.7 10 ⁵		2.9	11.0	³⁶ Ar	1.4	95
	+8	5 10 ⁶	9 10 ⁵	29	12.4	12.4		1.4	
³⁵ Ar (1.78s)	+1	4 10 ^{7**}	N.F		N.F	N.F	³⁶ Ar	1.4	95
	+8	3.5 10 ⁸	7 10 ⁷	28	3.6	13.7		1.4	
	+8	1.6 10 ⁸	3 10 ⁷		3.6	13.7		1.4	
⁴² Ar (33yr)	+8	3.5 10 ⁶	7 10 ⁵		2.5	9.54	⁴⁸ Ca ^{\$}	0.6	60
⁴² Ar (33yr)	+9	1.5 10 ⁶	3 10 ⁵		2.5	12.1	⁴⁸ Ca ^{\$}	0.6	60
⁴³ Ar (5.4min)	+8	3 10 ⁷	6 10 ⁶		2.4	9.1	⁴⁸ Ca ^{\$}	0.6	60
⁴⁴ Ar (11.8min)	+9	10 ⁶	2 10 ⁵		10.8	10.8	⁴⁸ Ca ^{\$}	0.6	60
⁴⁵ Ar (21.5s)	+8	7.5 10 ⁵	1.5 10 ⁵		2.2	8.3	⁴⁸ Ca ^{\$}	0.6	60
⁴⁶ Ar (8.4s)	+9	10 ⁵	2 10 ⁴		10.3	10.3	⁴⁸ Ca ^{\$}	0.6	60

* Available intensity for the experiment.

** LIRAT figures

N.F = not feasible

⁴⁸Ca^{\$} = Physicists have to provide ⁴⁸Ca samples.

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.