

Helium

Update : march 20th 2009

Radioactive Beam (half-life)	Charge State	Vsource (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*					
⁶ He (0.8s)	+1	10	2 10 ⁸ **				¹³ C	2.5	75
	+1			1.7 10 ⁷	3.2	7.3		1.2	
	+1			2.8 10 ⁷	3.8	7.3		2.5	
	+1			3.2 10 ⁷	5	7.3		1.2	
	+2	30	2.5 10 ⁷	5 10 ⁶		20		2.5	
⁸ He (0.12s)	+1	17	1.5 10 ⁶	3 10 ⁵	2.34	3.8	¹³ C	2.5	75
	+1			1.5 10 ⁵	2.5	4.1		2.5	
	+1		2.6 10 ⁵	5.2 10 ⁴	3.5	4.1		0.9	
	+1			1.8 10 ⁵	3.8	4.1		2.5	
	+1	27	1.8 10 ⁶	3.5 10 ⁵	3.7	3.8		2.5	
	+2		1.3 to 1.5 10 ⁵	2 to 3 10 ⁴		15.4		1.4	

* Available intensity for the experiment.

** LIRAT figures

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.