Enter reaction below in the yellow cells. This will automatically calculate the parameters you require in the appropriate columns. Simply cut and paste in Ptolemy. Other useful data given below.

KINEMATICS	target	beam	ejectile	recoil	MeV/u beam	ex		Qval gs	Qval ex	MeV beam	E c.m.	Qopt	Sn 37S	S2n 37S	Sp 37S
	36S	2H	1h	37S	4.000	0.000		2.0790	2.0790	8	7.5758	0.000	4.3036	14.1928	13.9344

A=1 IONS	1h
A	37
Z	16
E (MEV)	10.079

DEUTERONS	
A	36
Z	16
E (MEV)	8.000

A=3 IONS	3h
A	36
Z	16
E (MEV)	8.000

Koning and Delaroche, 2009 | 0.001 < E < 200 | 24 < A < 209 | Iso. Dep.
http://dx.doi.org/10.1016/S0375-9474(02)01321-0
v = 56.24 r0 = 1.182 a = 0.672
vi = 0.786 ri0 = 1.182 ai = 0.672
vsi = 8.709 rsi0 = 1.29 asi = 0.538
vso = 5.614 rso0 = 0.991 aso = 0.59
vsoi = -0.039 rsoi0 = 0.991 asoi = 0.59 rc0 = 1.292

Zhang, Pang, and Lou, 2016 |5.25 < E < 170 | 1p nuclei
https://doi.org/10.1103/PhysRevC.94.014619
To be added
To be added
To be added
To be added
To be added

Xu, Guo, Han, Shen, 2011 | E < 250 MeV | 20 < A < 2
http://dx.doi.org/10.1007/s11433-011-4488-5
v = 133.977 r0 = 1.15 a = 0.788
vi = 0 ri0 = 1.618 ai = 0.665
vsi = 30.575 rsi0 = 1.207 asi = 0.736
vso = 3 rso0 = 1.269 aso = 0.9
vsoi = 0 rsoi0 = 0 asoi = 0 rc0 = 1.25

Varner et al., (CH89), 1991 | 16 < E < 65 | 40 < A < 209
http://dx.doi.org/10.1016/0370-1573(91)90039-O
v = 53.603 r0 = 1.182 a = 0.69
vi = 0.959 ri0 = 1.204 ai = 0.69
vsi = 8.779 rsi0 = 1.204 asi = 0.69
vso = 5.9 rso0 = 0.98 aso = 0.63
vsoi = 0 rsoi0 = 0 asoi = 0 rc0 = 1.276

Han, Shi, Shen, 2006 | E < 200 | 12 < A < 209
http://dx.doi.org/10.1103/PhysRevC.74.044615
v = 82.198 r0 = 1.174 a = 0.809
vi = 0 ri0 = 0 ai = 0
vsi = 15.511 rsi0 = 1.328 asi = 0.614
vso = 3.703 rso0 = 1.234 aso = 0.813
vsoi = -0.206 rsoi0 = 1.234 asoi = 0.813 rc0 = 1.698

Liang, Li, Cai, 2009 | E < 270 MeV | All masses
http://dx.doi.org/10.1088/0954-3899/36/8/085104
v = 122.343 r0 = 1.178 a = 0.765
vi = -4.439 ri0 = 1.415 ai = 0.846
vsi = 22.208 rsi0 = 1.198 asi = 0.846
vso = 2.082 rso0 = 0.739 aso = 0.941
vsoi = -1.159 rsoi0 = 0.739 asoi = 0.941 rc0 = 1.289

Menet et al., 1971 | 30 < E < 60 | A > 40
http://dx/doi.org/10.1016/0092-640X(76)90007-3
v = 53.171 r0 = 1.16 a = 0.75
vi = 2.107 ri0 = 1.37 ai = 0.795
vsi = 5.791 rsi0 = 1.37 asi = 0.795
vso = 6.04 rso0 = 1.064 aso = 0.78
vsoi = 0 rsoi0 = 0 asoi = 0 rc0 = 1.25

An, Cai, 2006 | E < 183 | 12 < A < 238
http://dx.doi.org/10.1103/PhysRevC.73.054605
v = 92.976 r0 = 1.15 a = 0.761
vi = 1.602 ri0 = 1.335 ai = 0.525
vsi = 10.585 rsi0 = 1.38 asi = 0.736
vso = 3.557 rso0 = 0.972 aso = 1.011
vsoi = 0 rsoi0 = 0 asoi = 0 rc0 = 1.303

Pang et al., 2009 | All E | All masses | Isospin dep.
http://dx.doi.org/10.1103/PhysRevC.79.024615
v = 118.966 r0 = 1.155 a = 0.82
vi = 1.697 ri0 = 1.271 ai = 0.84
vsi = 22.644 rsi0 = 1.271 asi = 0.84
vso = 1.54 rso0 = 0.997 aso = 0.13
vsoi = 0 rsoi = 0 asoi = 0 rc0 = 1.276