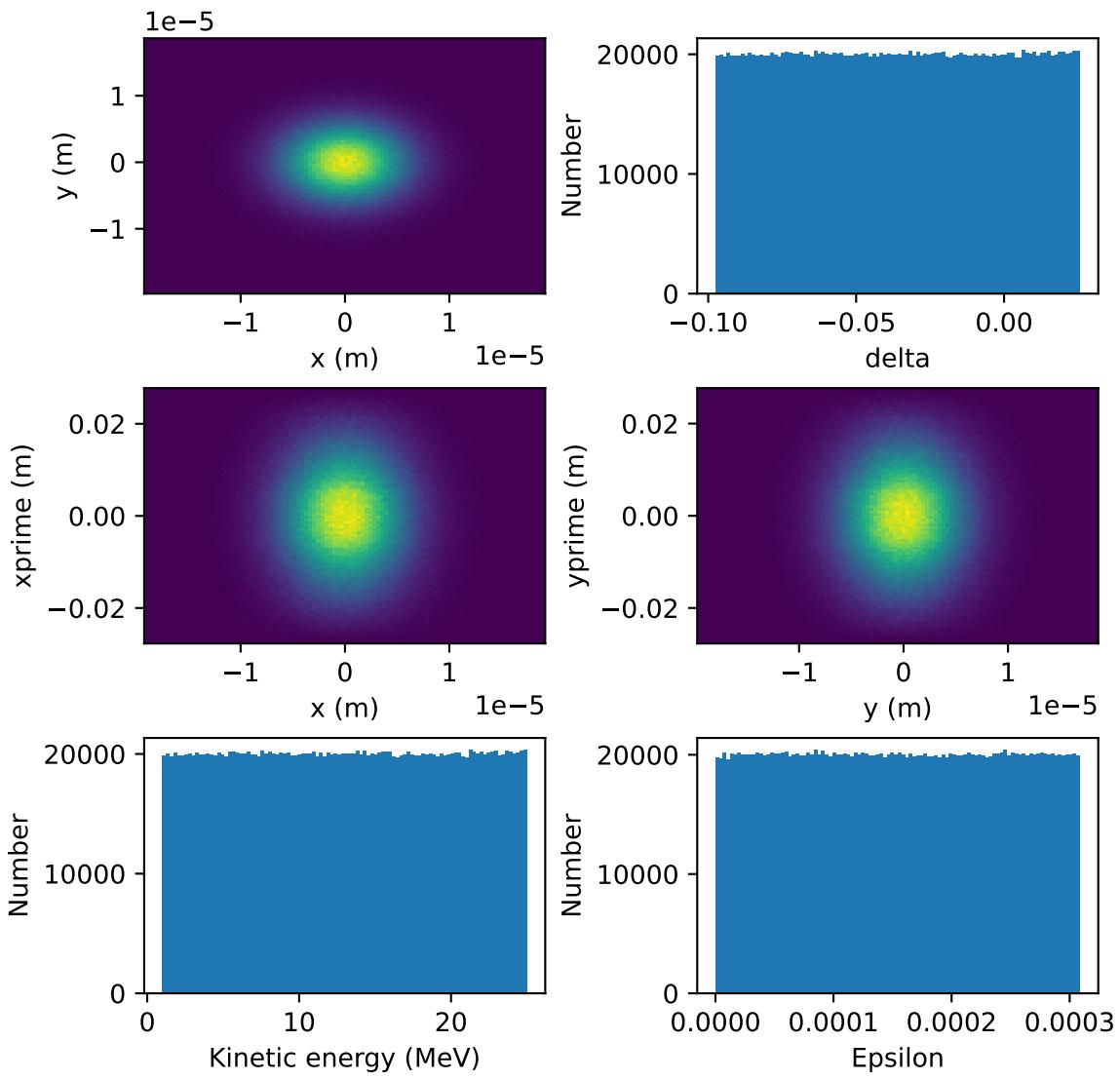
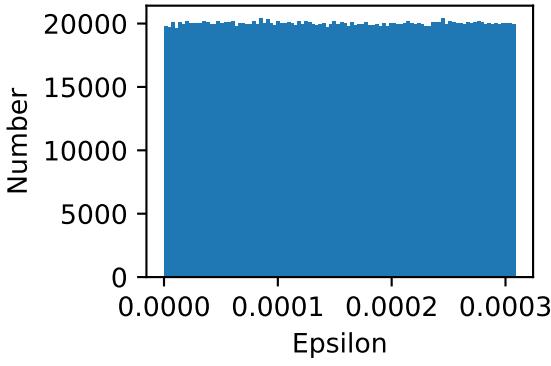
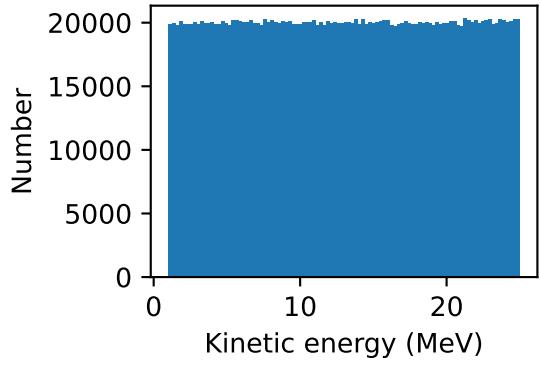
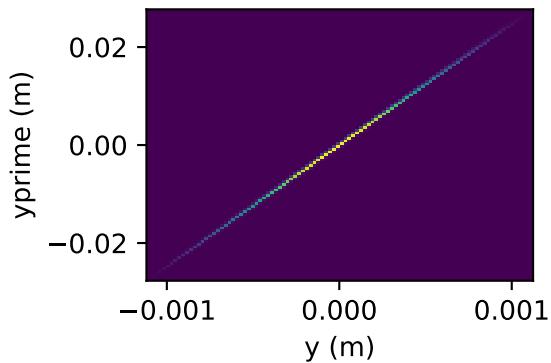
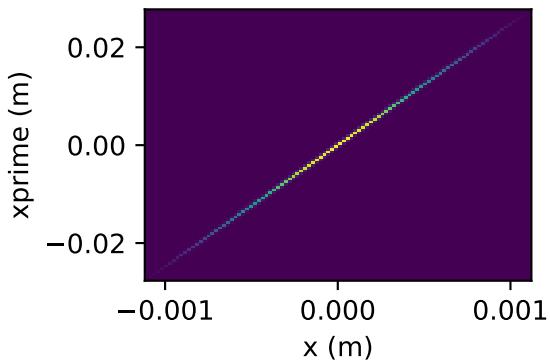
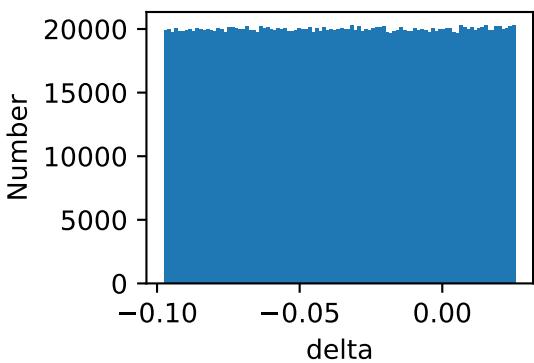
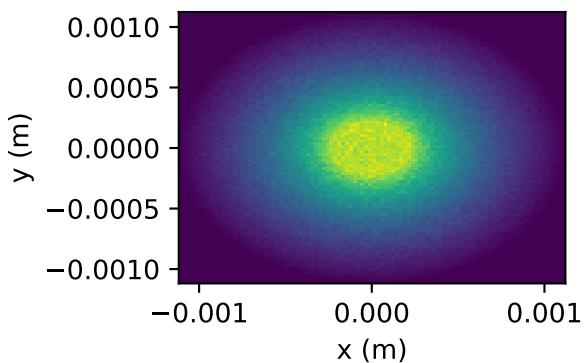


Stage	Section	Element	Type	Parameter	Value	Unit	Comment
0	Facility	Global	Name	Name	LION		
0	Facility	Global	Reference particle	Kinetic energy	20	MeV	
0	Facility	Global	Vacuum chamber	Mother volume radius	0.5	m	
1	Source	Source	Flat	SourceMode	2		Gaussian kinetic energy
1	Source	Source	Flat	SigmaX	0.000004	m	Gaussian width, x
1	Source	Source	Flat	SigmaY	0.000004	m	Gaussian width, y
1	Source	Source	Flat	Emin	1	MeV	Minimum of energy distribution
1	Source	Source	Flat	Emax	25	MeV	Maximum of energy distribution
1	Source	Source	Flat	MinCTheta	0.999691		Maximum theta for flat cos theta
1	Capture	Drift		Length	0.04034	m	Length of first drift
1	Capture	Aperture	Elliptical	RadiusX	0.003	m	Half aperture in x of elliptical colimator
1	Capture	Aperture	Elliptical	RadiusY	0.0015	m	Half aperture in y of ellipseof elliptical colimator
1	Capture	Drift		Length	0	m	Gap between colimator and first quad
1	Capture	Fquad		Length	0.04	m	Length of focusing quad
1	Capture	Fquad		Strength	332	T/m	Strength of focusing quad
1	Capture	Aperture	Circular	Radius	0.005	m	Aperture of quad
1	Capture	Drift		Length	0.02577	m	Gap between colimator first (F)quad and second (D)quad
1	Capture	Dquad		Length	0.02	m	Length of defocusing quad
1	Capture	Dquad		Strength	318.5	T/m	Strength of defocusing quad
1	Capture	Aperture	Circular	Radius	0.005	m	Aperture of quad
1	Delivery	Drift		Length	1.728652	m	Main drift from last quad to kapton/aluminium foils
1	Delivery	Drift		Length	0.015	m	Drift from kapton/aluminium foils to collimator
1	Delivery	Aperture	Circular	Radius	0.0015	m	Collimator before "end station"
1	Delivery	Drift		Length	0.02	m	Final drift

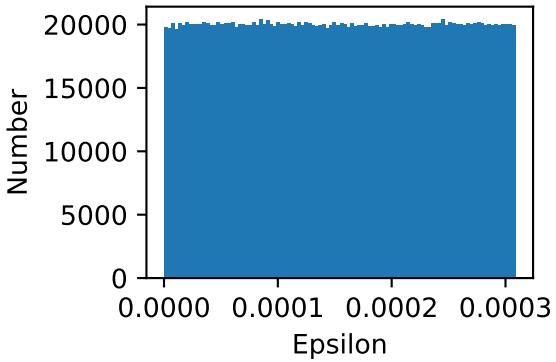
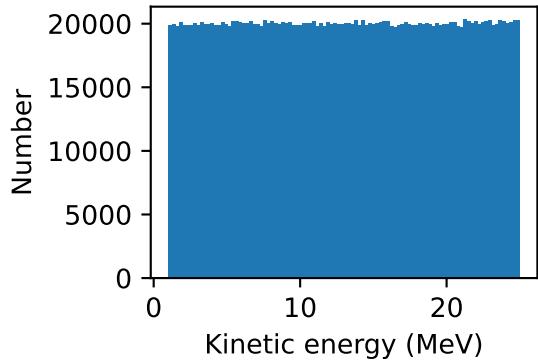
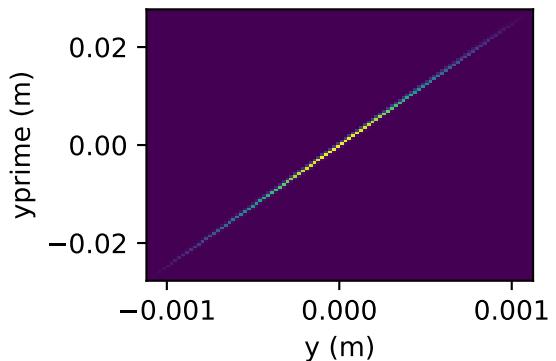
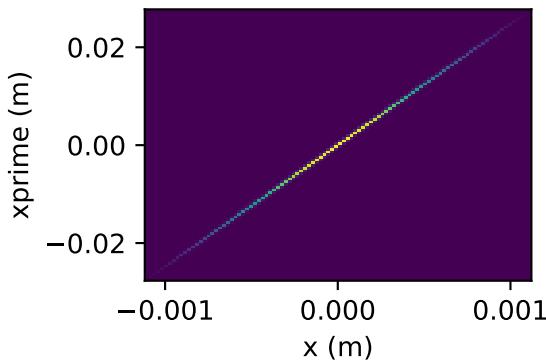
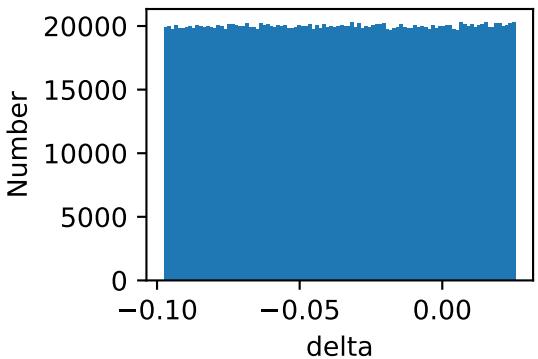
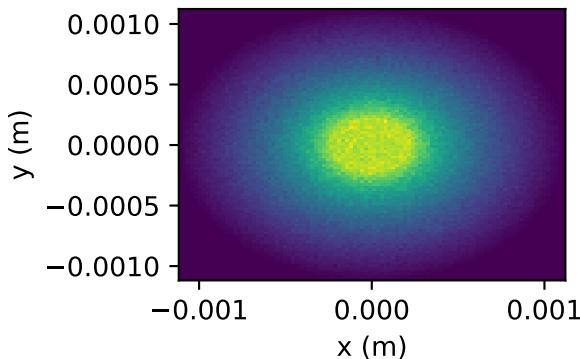
# LION:1:Source:Source



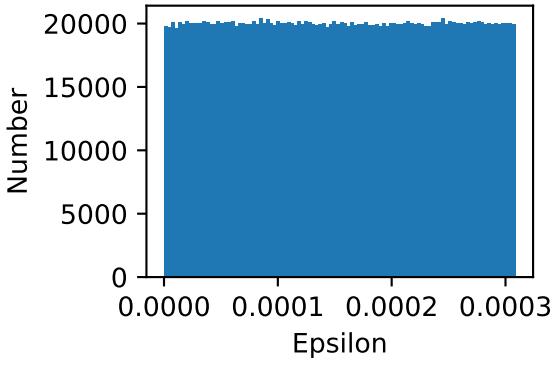
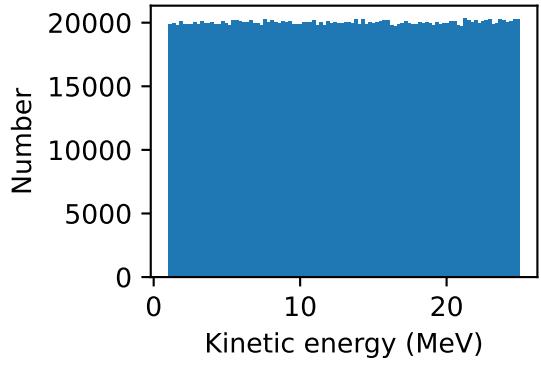
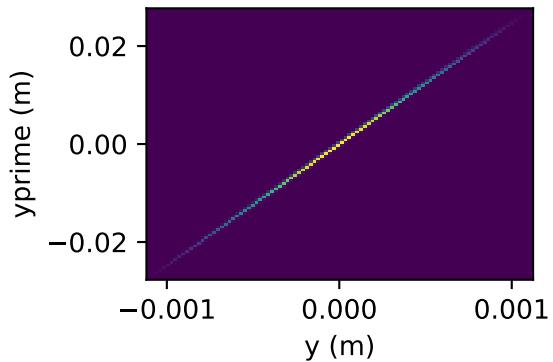
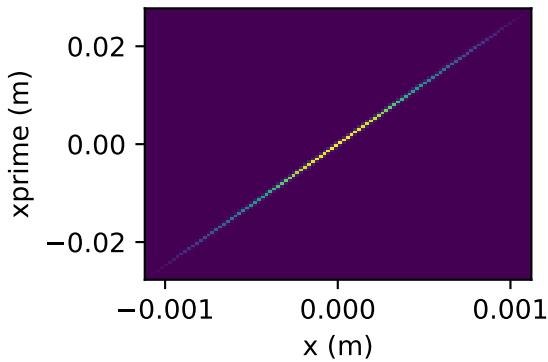
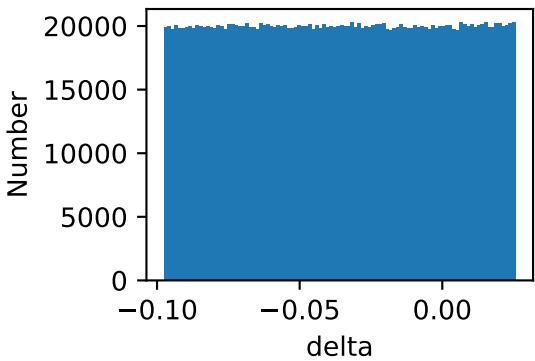
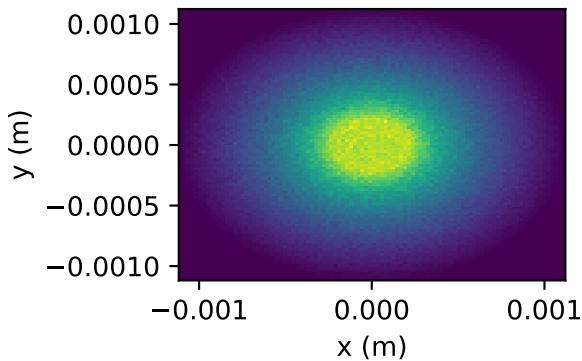
# LION:1:Capture:Drift:1



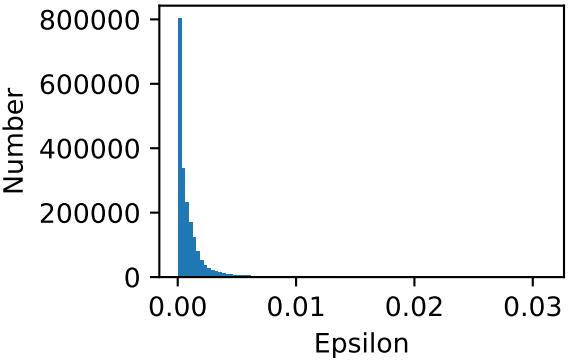
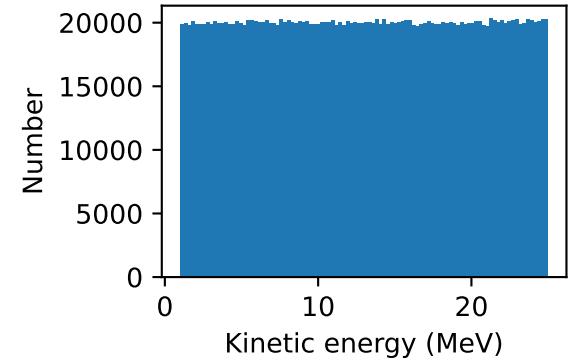
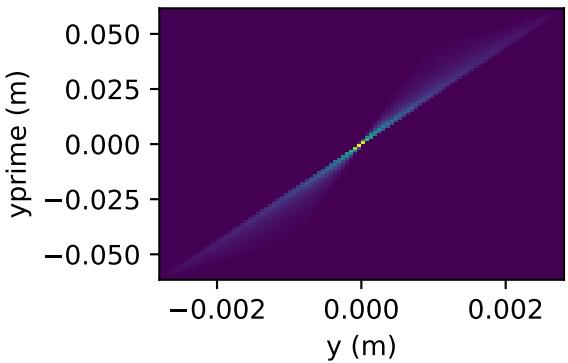
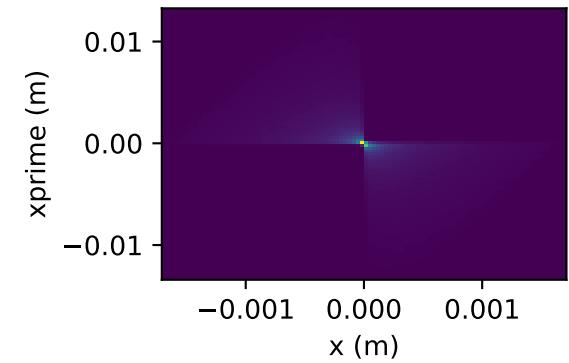
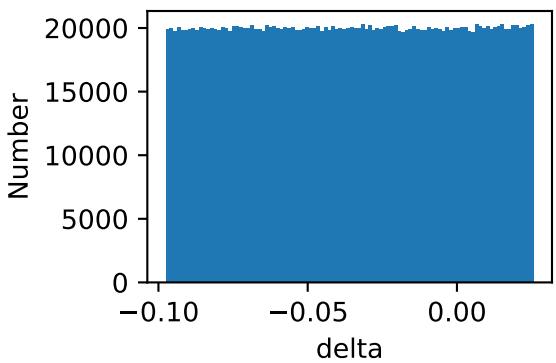
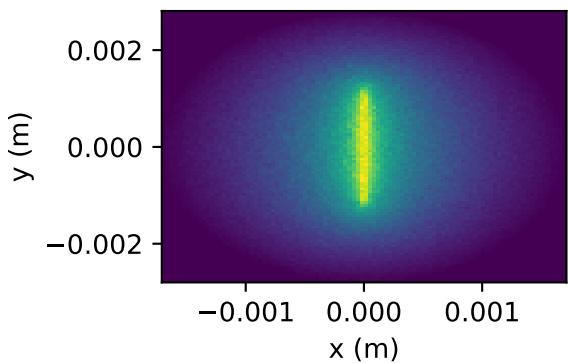
# LION:1:Capture:Aperture:Elliptical:1



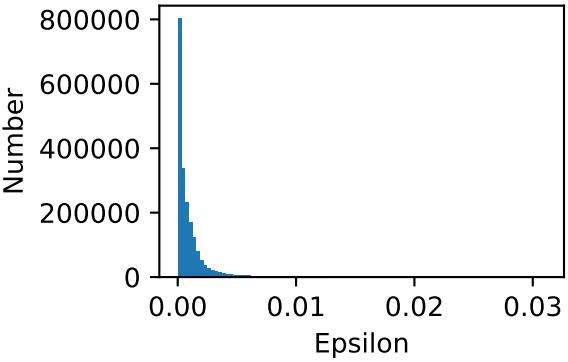
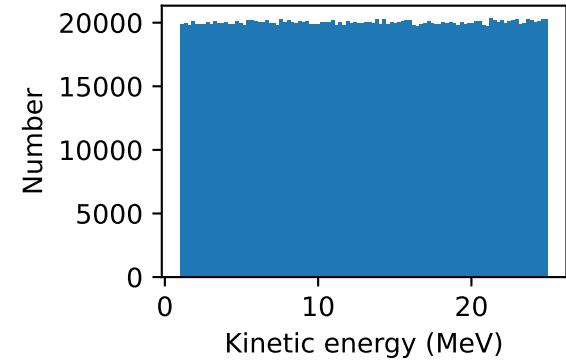
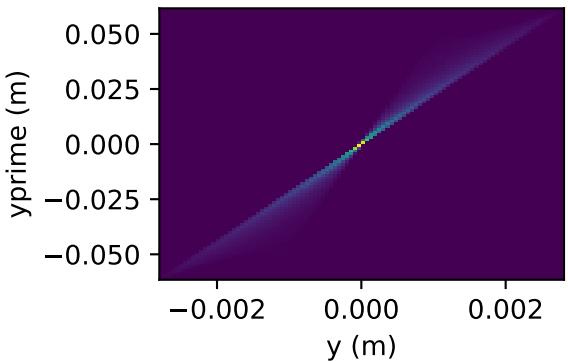
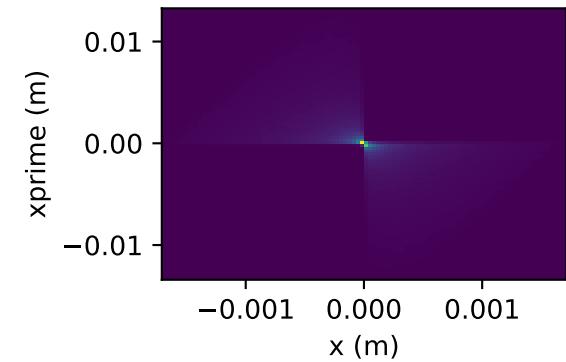
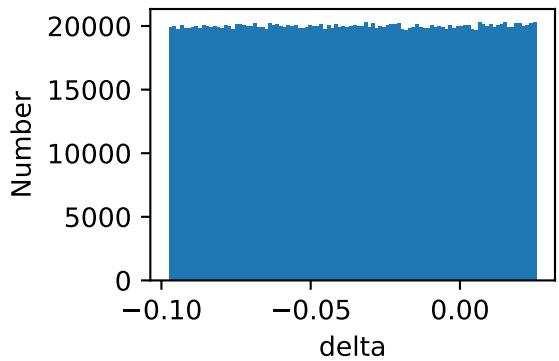
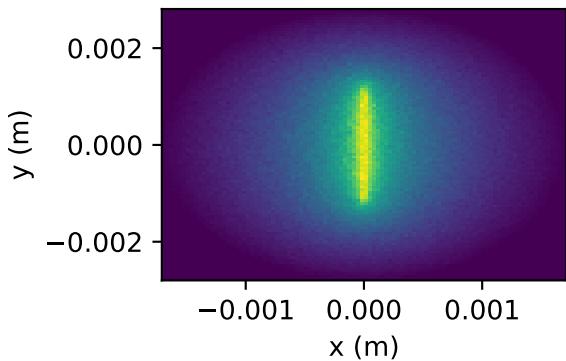
# LION:1:Capture:Drift:2



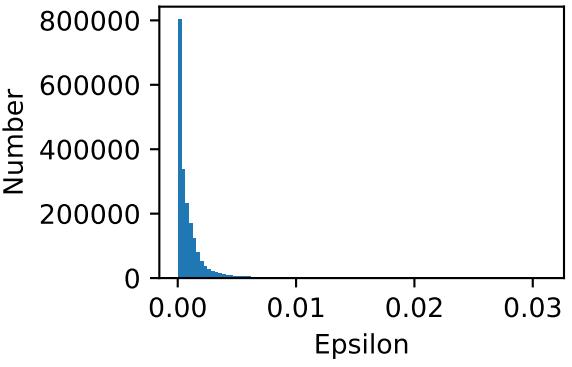
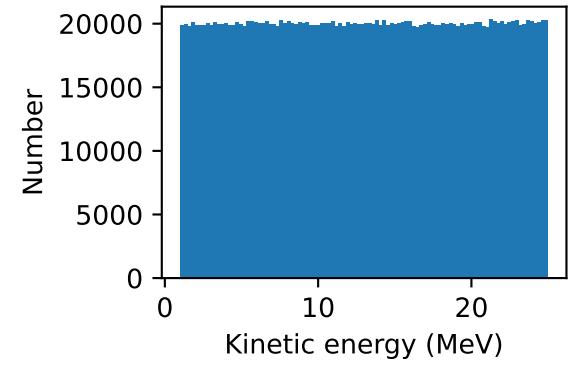
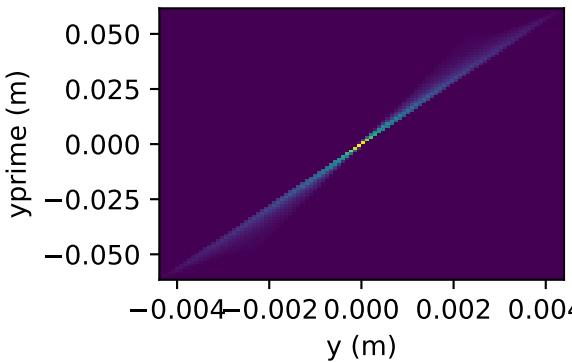
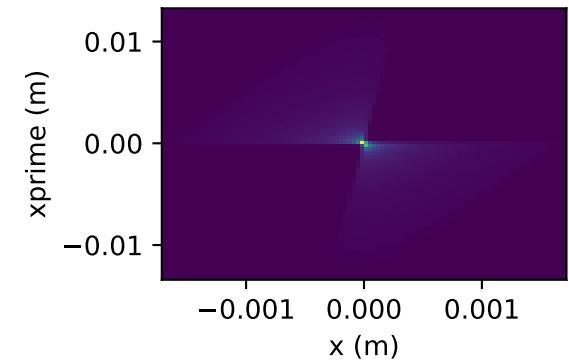
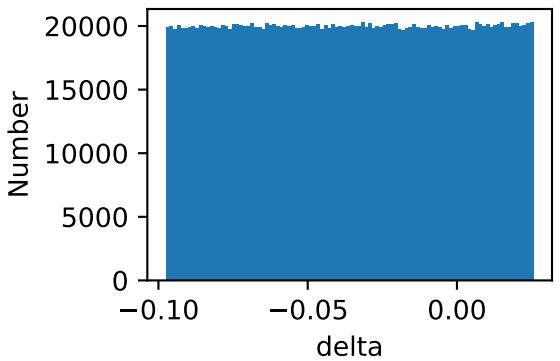
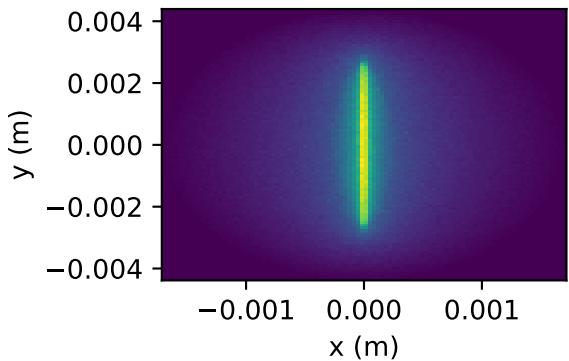
# ION:1:Capture:Fquad:1



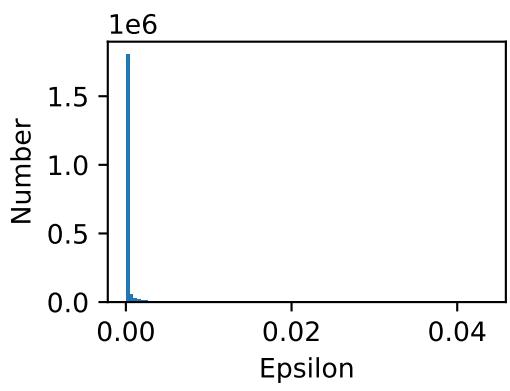
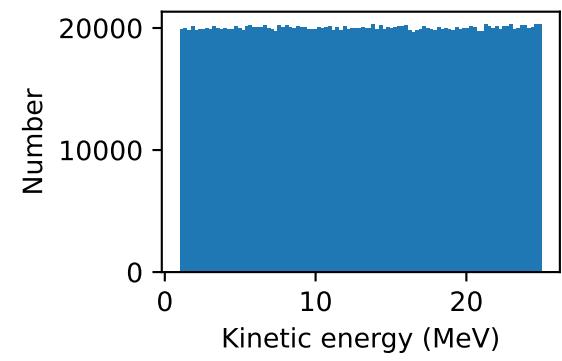
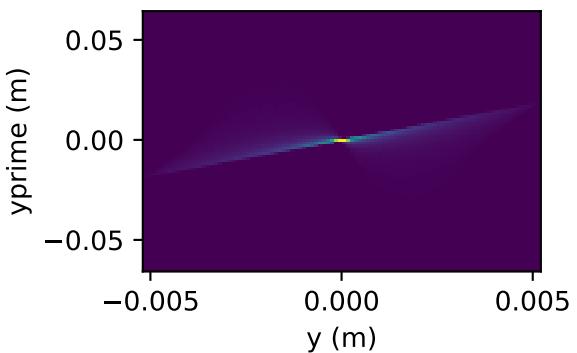
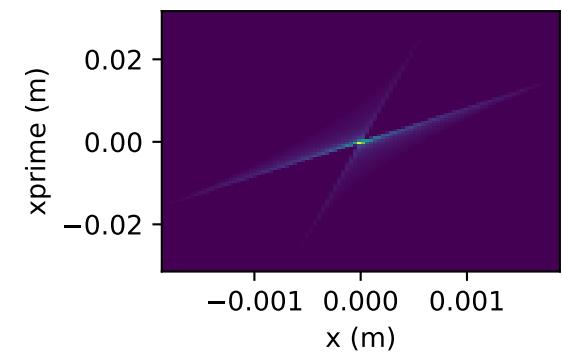
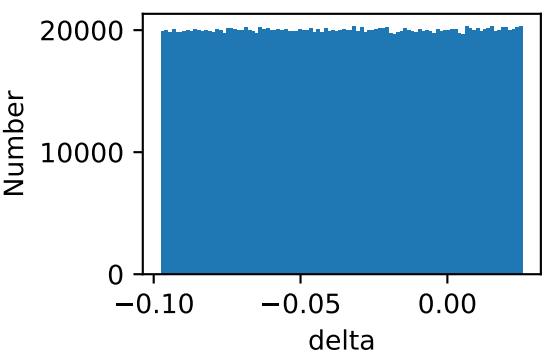
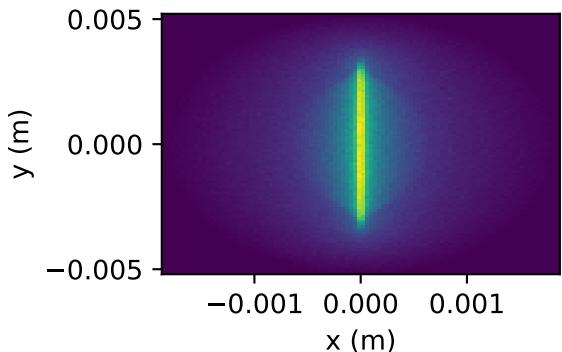
# ION:1:Capture:Aperture:Circular:2



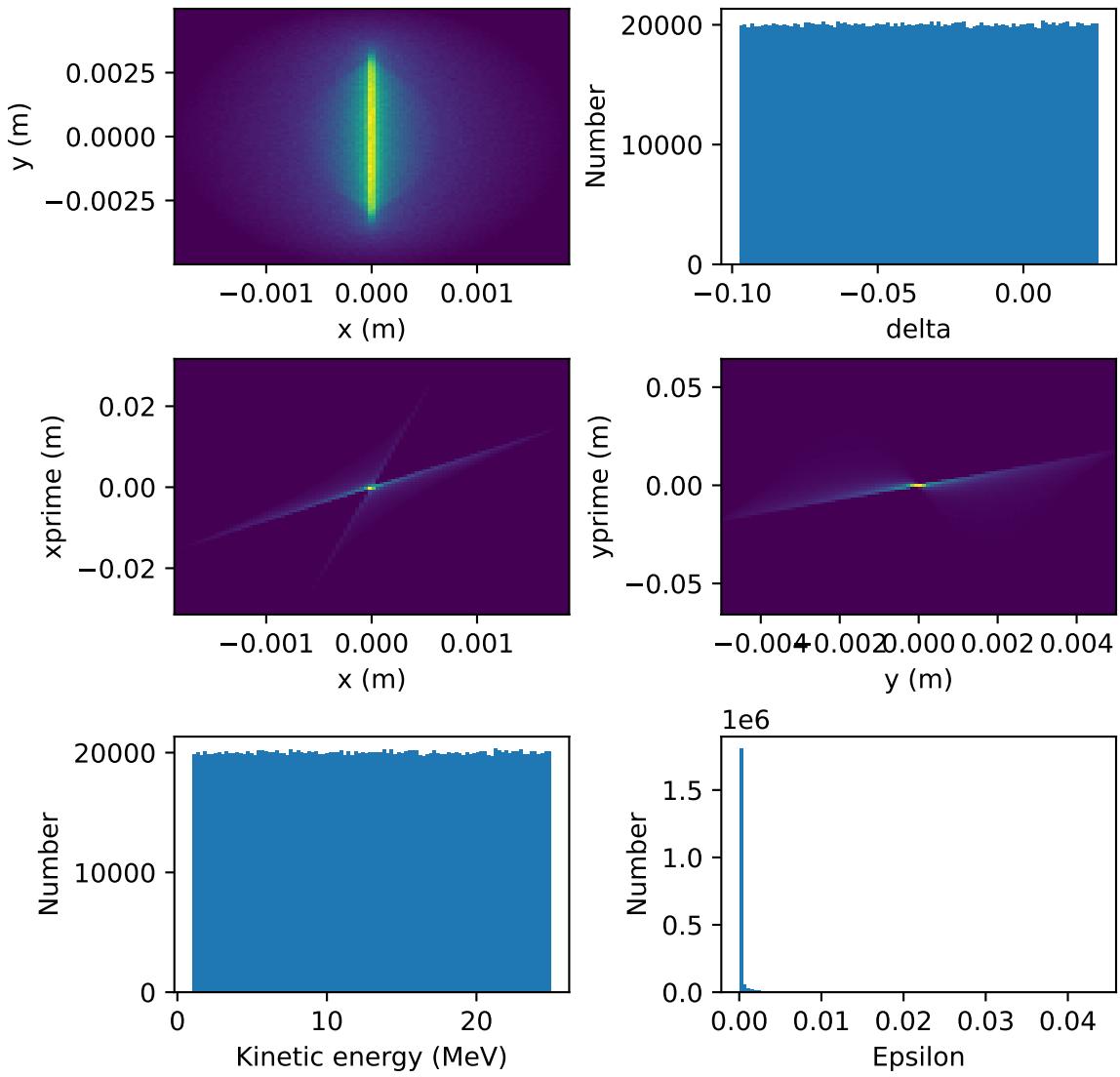
# LION:1:Capture:Drift:3



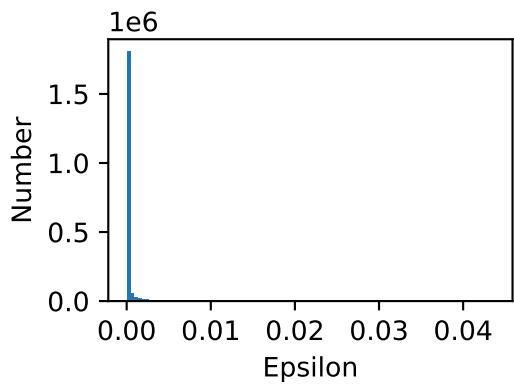
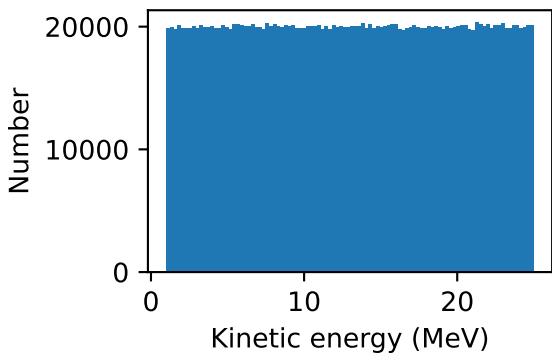
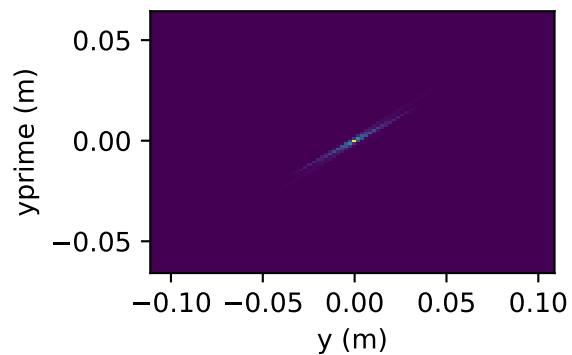
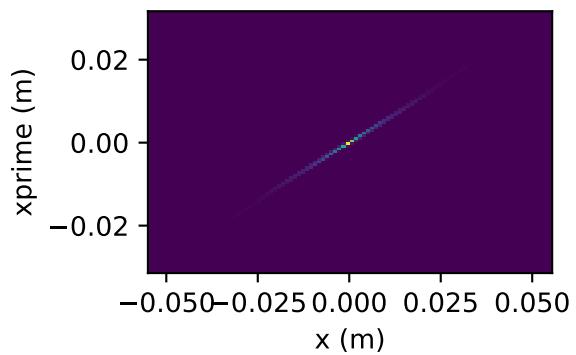
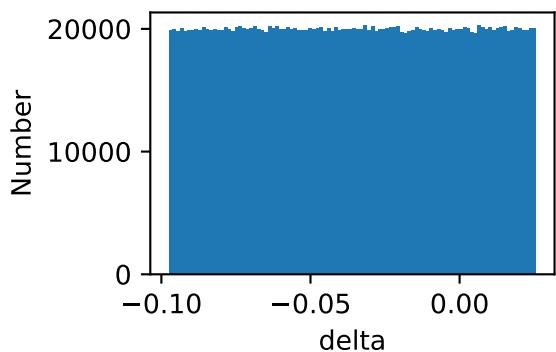
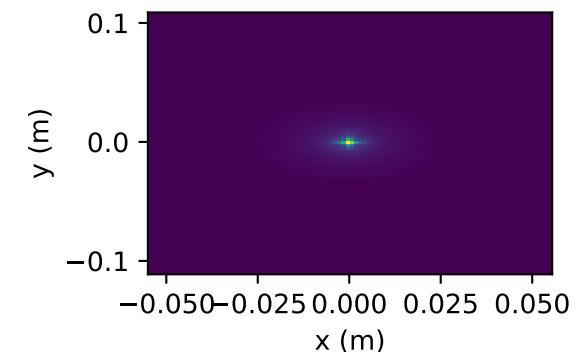
# ION:1:Capture:Dquad:1



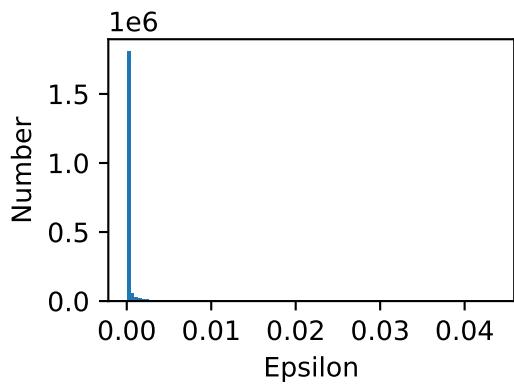
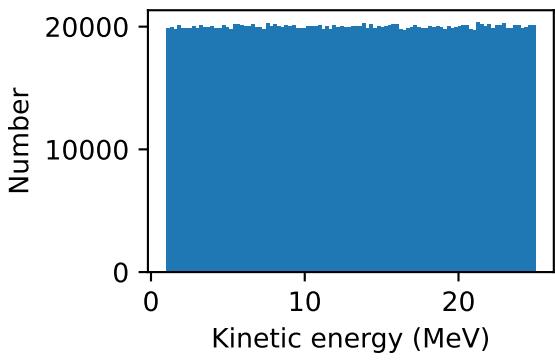
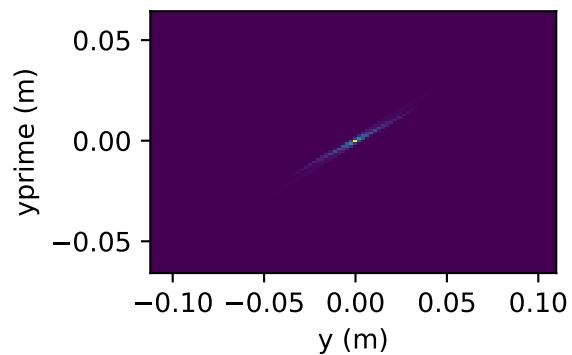
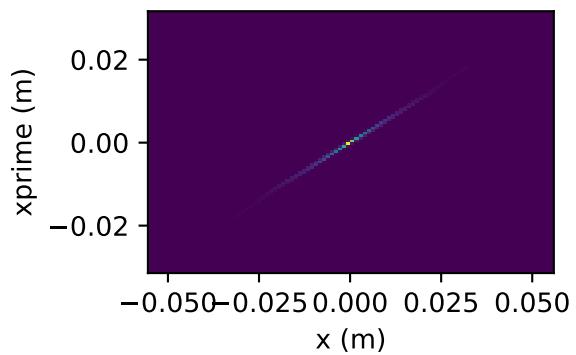
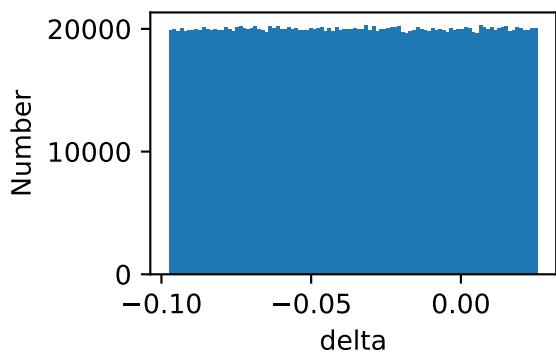
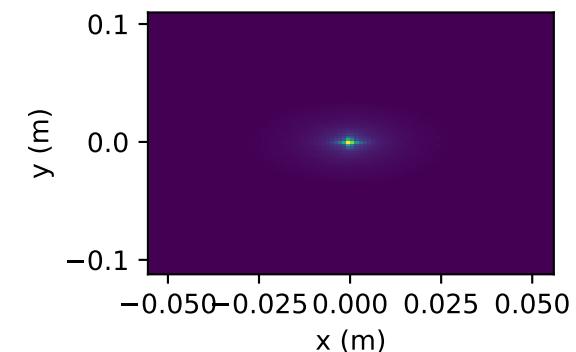
# ION:1:Capture:Aperture:Circular:3



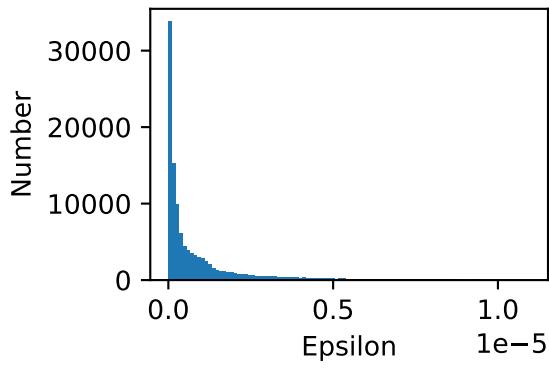
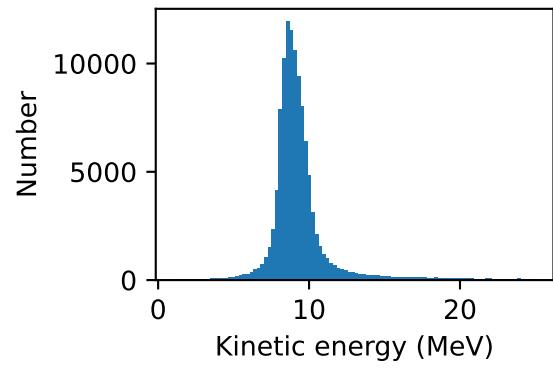
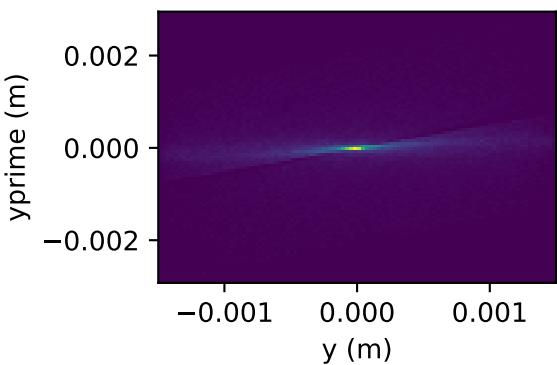
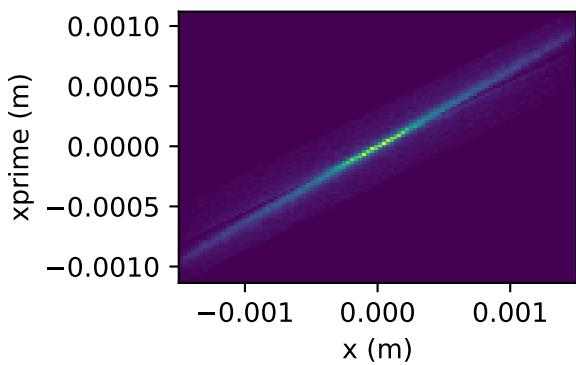
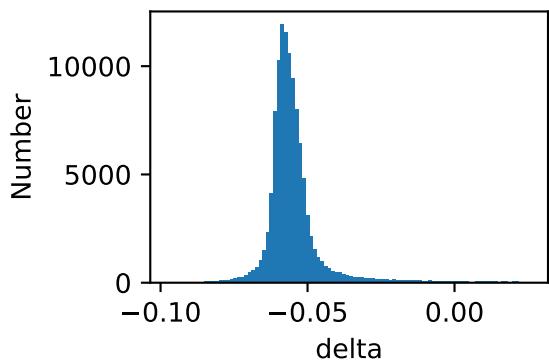
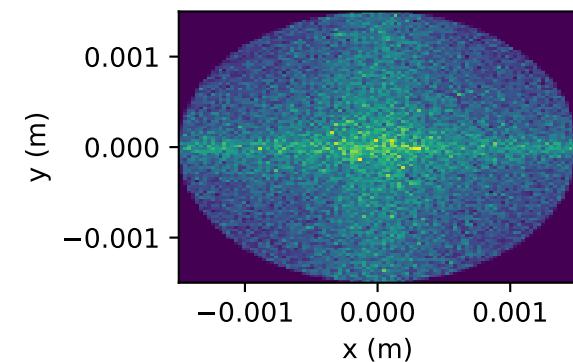
# LION:1:Delivery:Drift:1



# LION:1:Delivery:Drift:2



ION:1:Delivery:Aperture:Circular:1



# LION:1:Delivery:Drift:3

