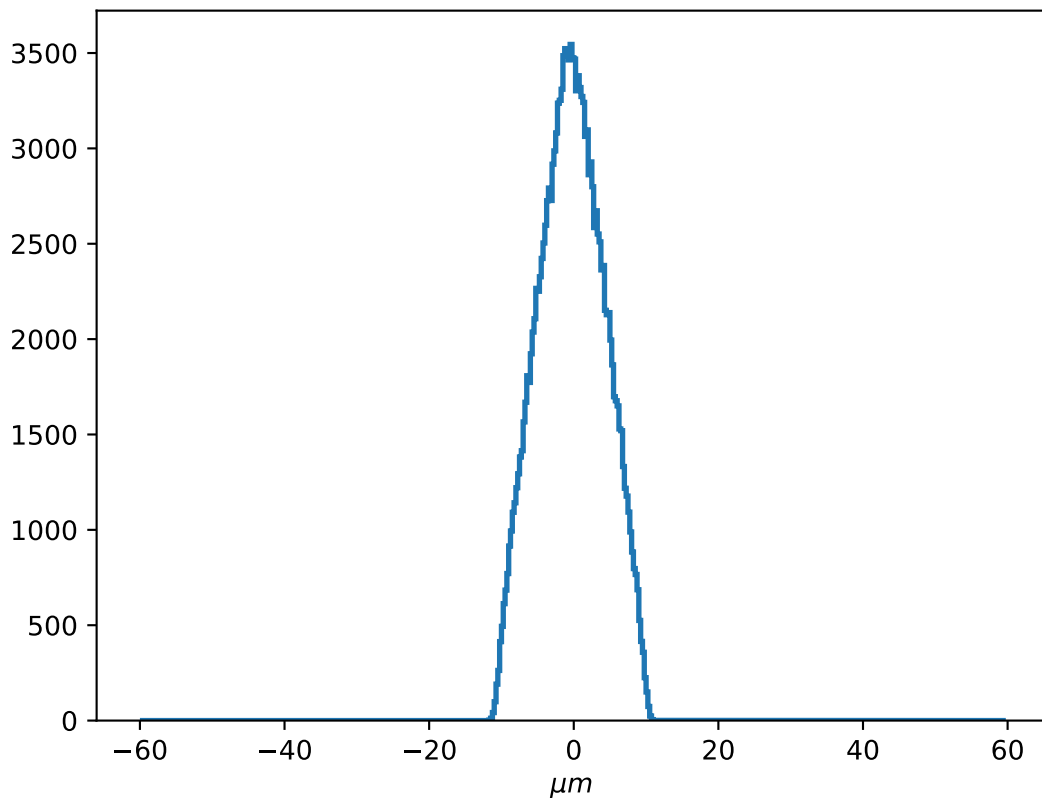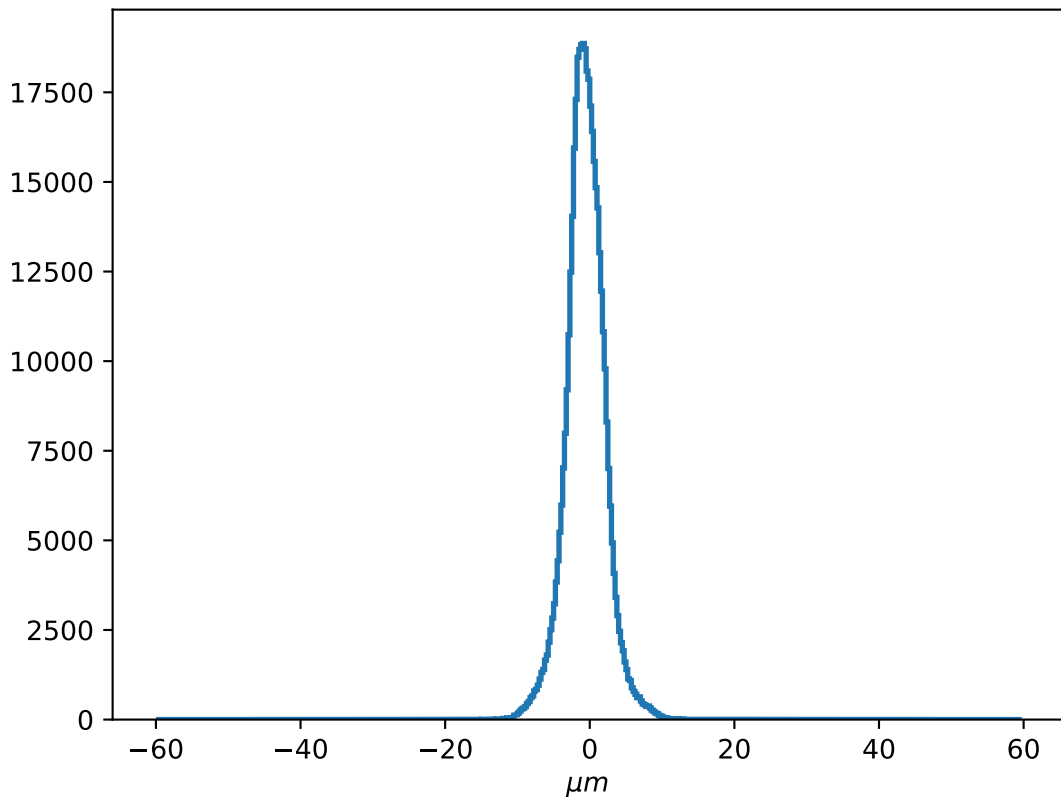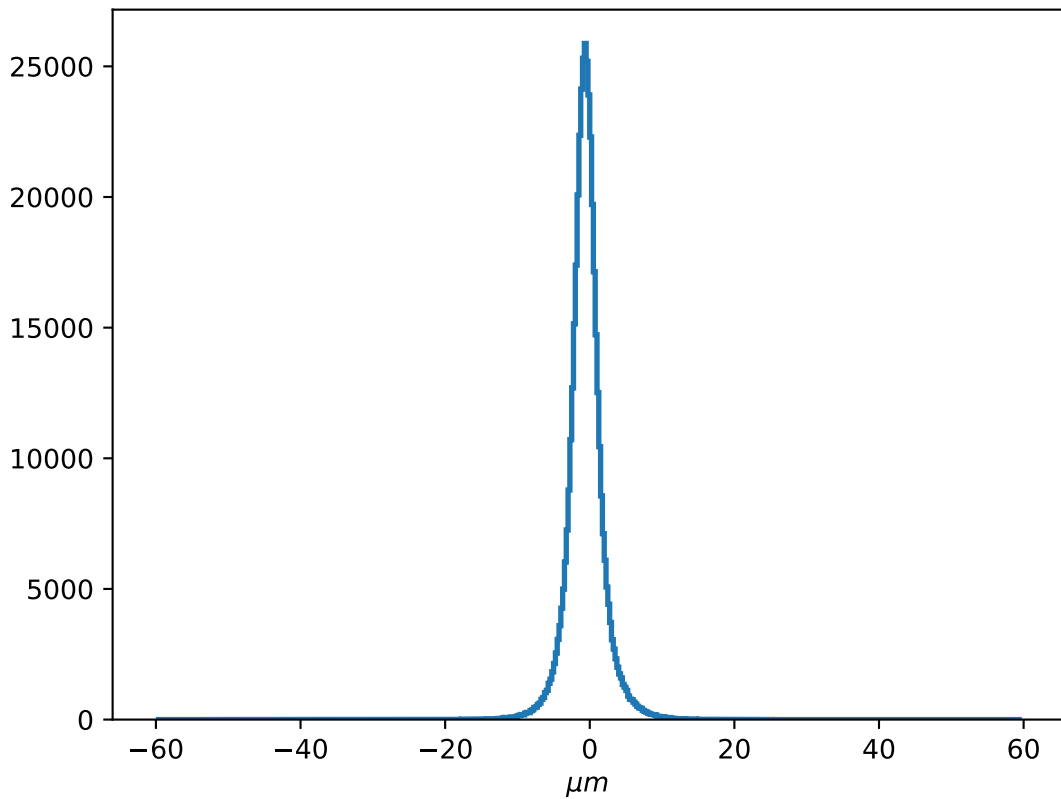residuals in x for clustersize = 1, $\sigma = 4.52$
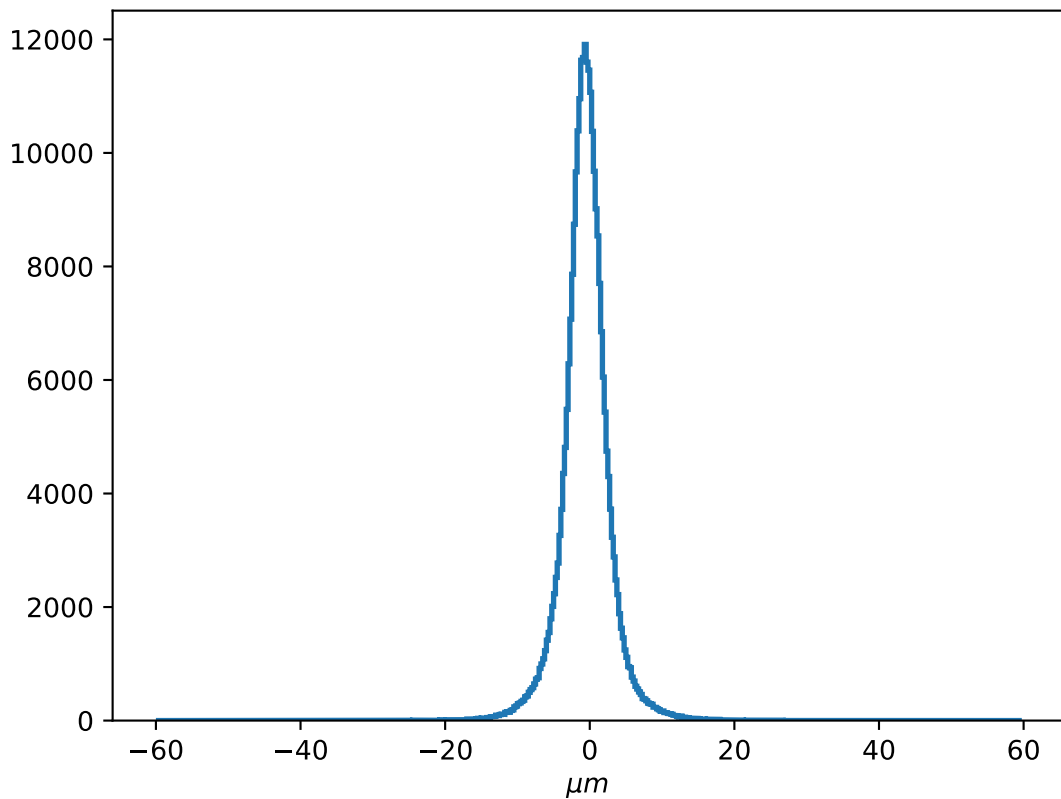
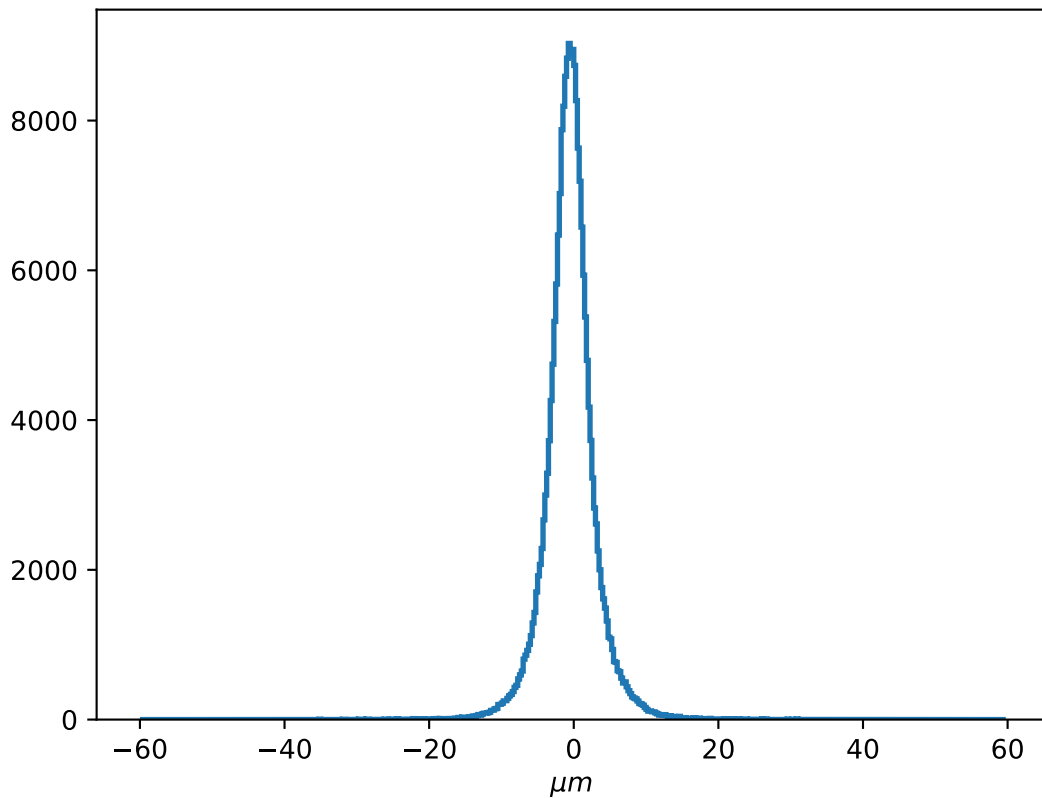residuals in x for clustersize = 2, σ = 2.74

residuals in x for clustersize = 3, σ = 2.53
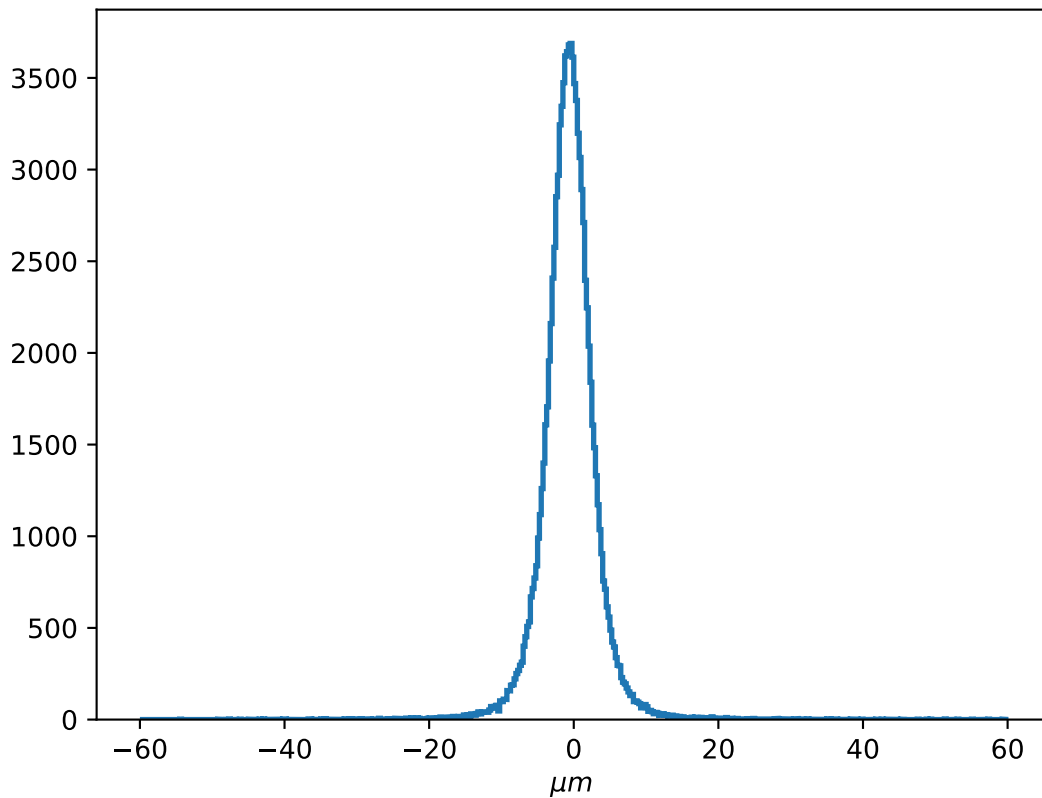
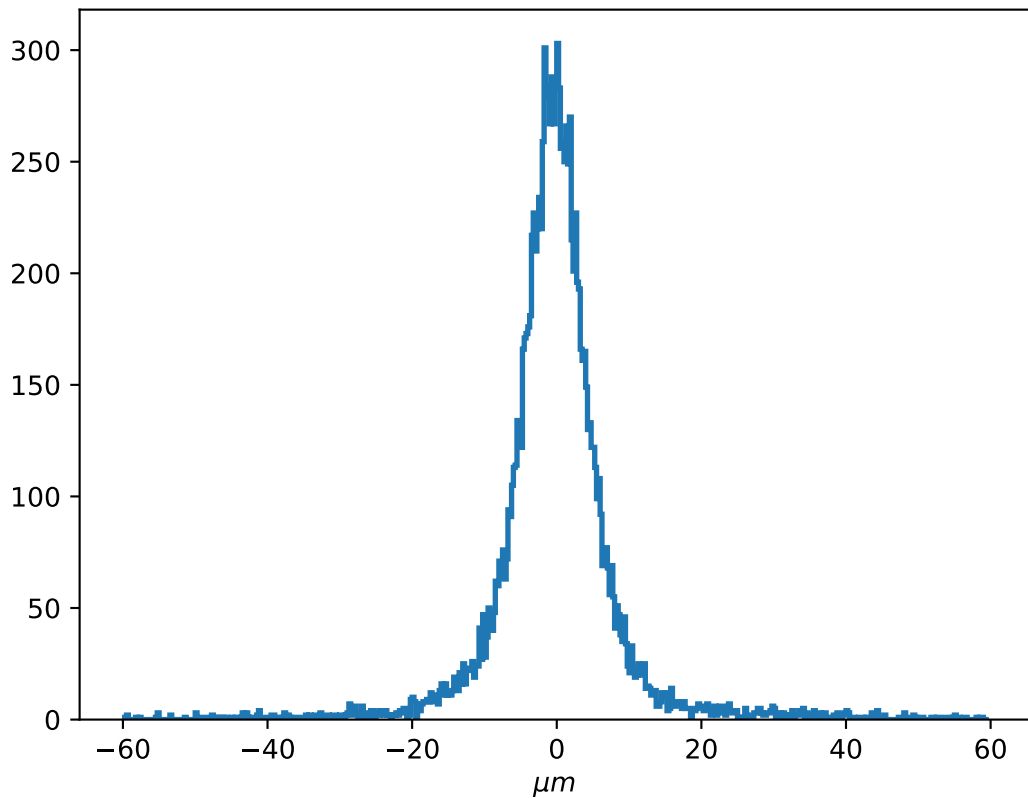residuals in x for clustersize = 4, σ = 3.51
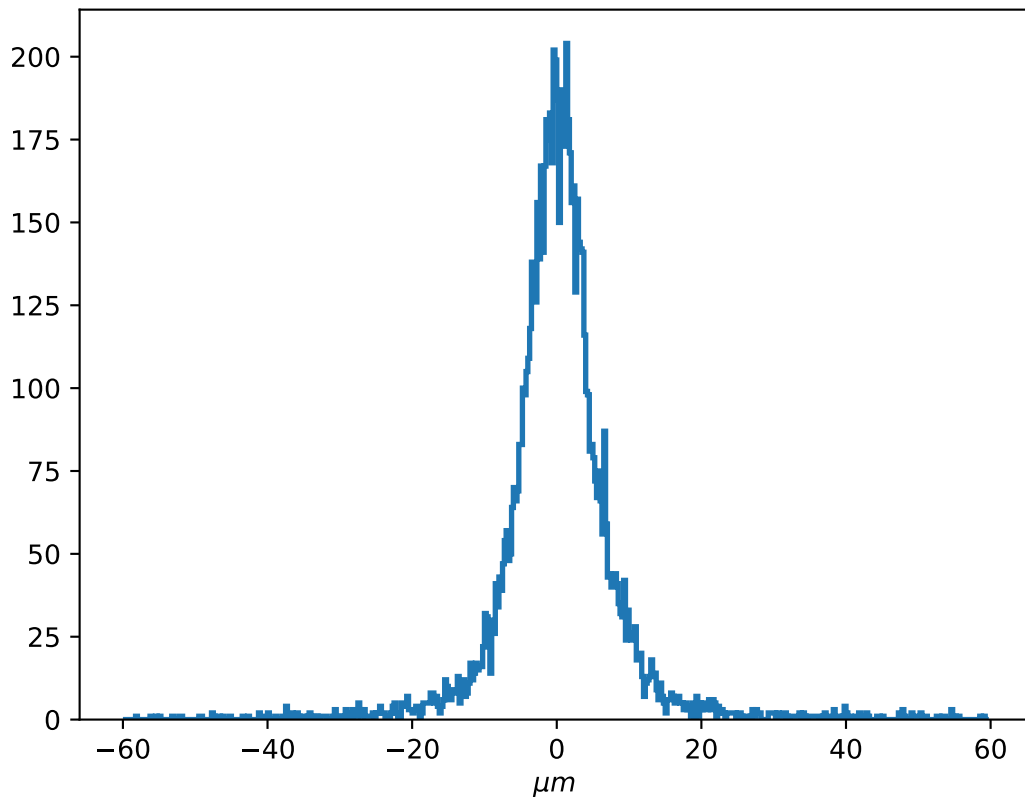
residuals in x for clustersize = 5, σ = 3.76

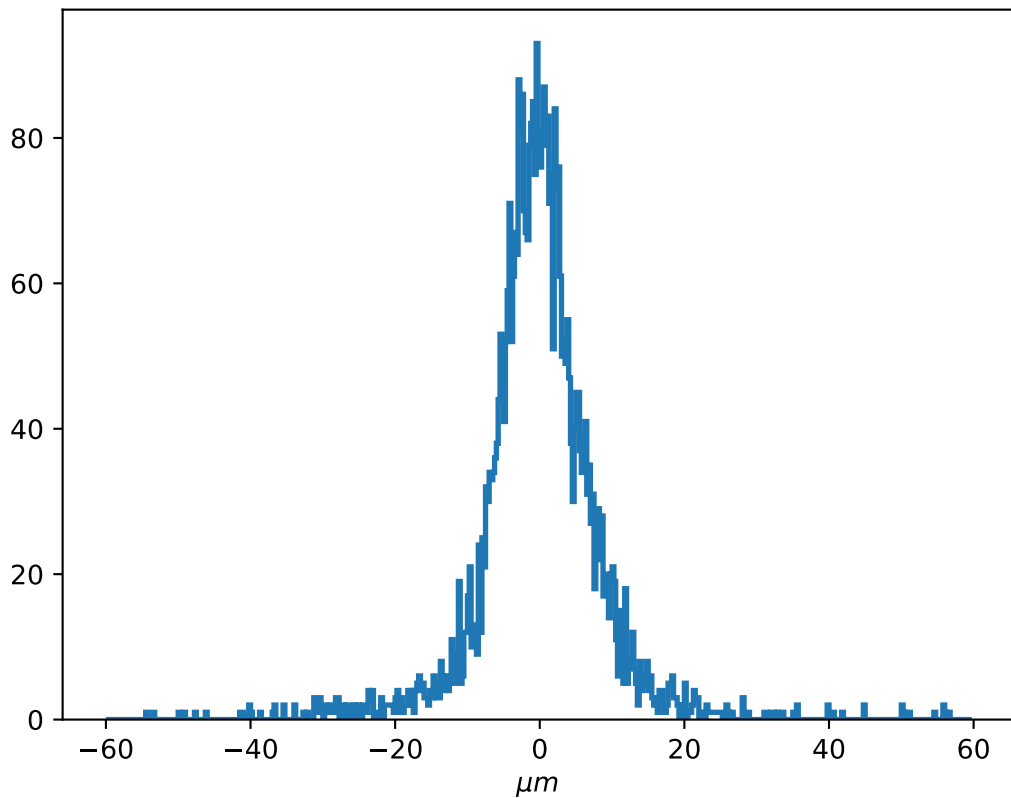residuals in x for clustersize = 6, $\sigma = 4.70$

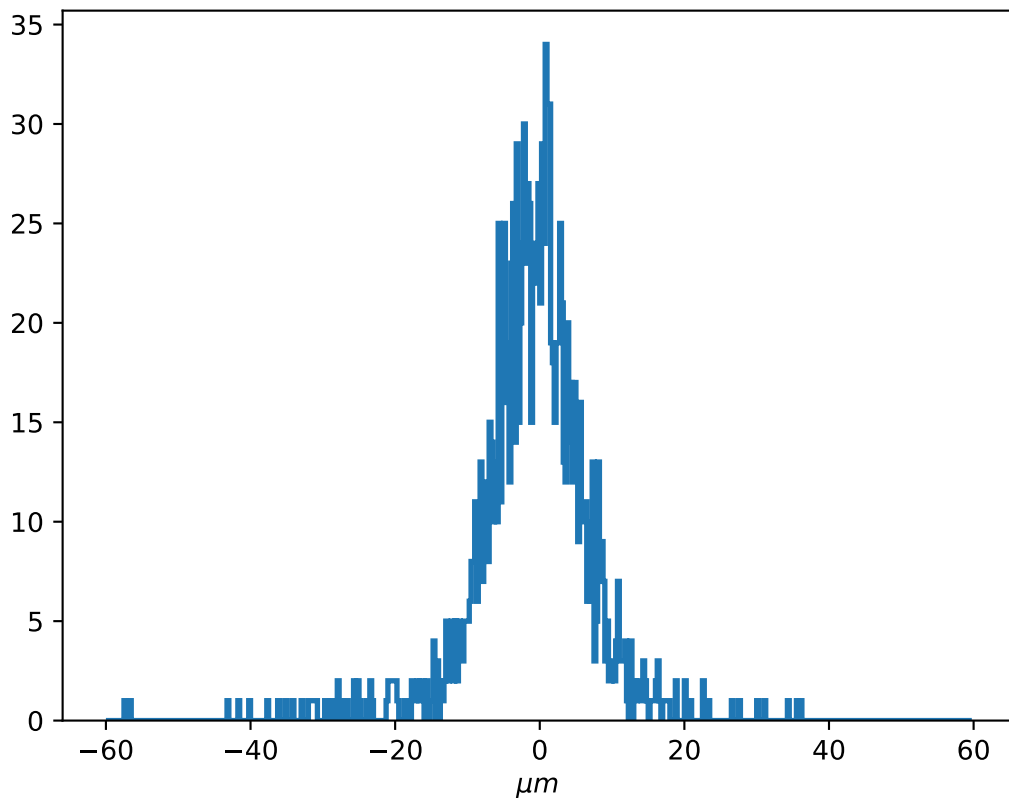residuals in x for clustersize = 7, $\sigma = 11.25$

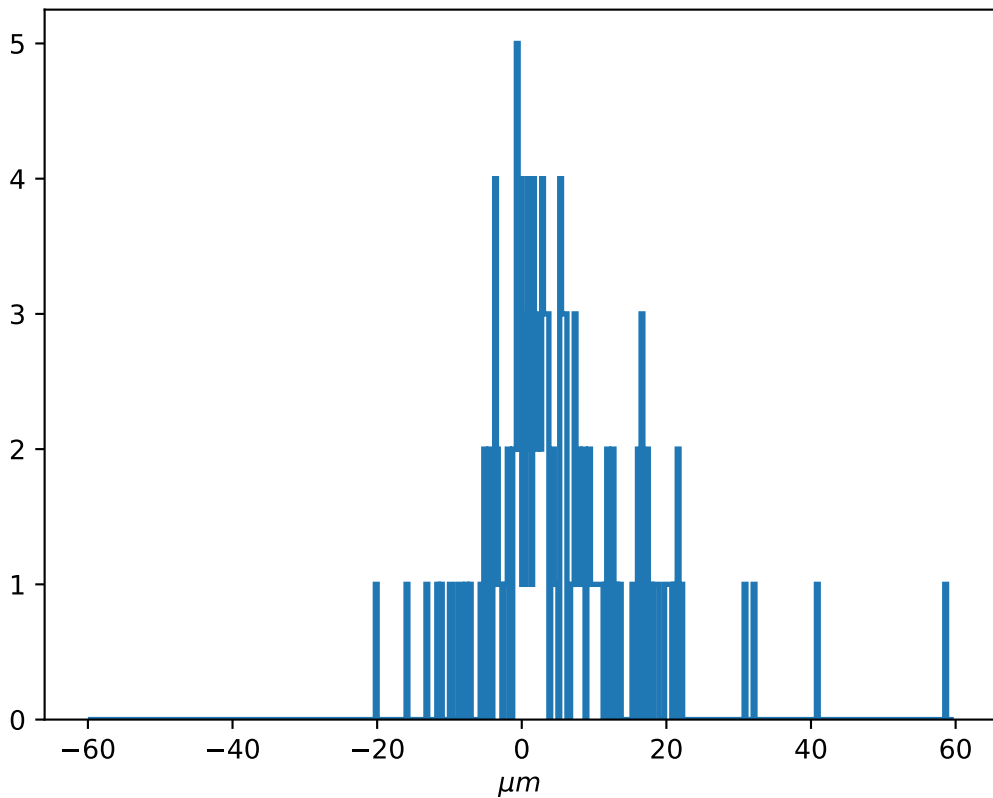residuals in x for clustersize = 8, σ = 12.00

residuals in x for clustersize = 9, σ = 11.28

residuals in x for clustersize = 10, σ = 9.88

residuals in x for clustersize = 11, $\sigma = 10.00$

residuals in x for clustersize = 12, σ 9.76