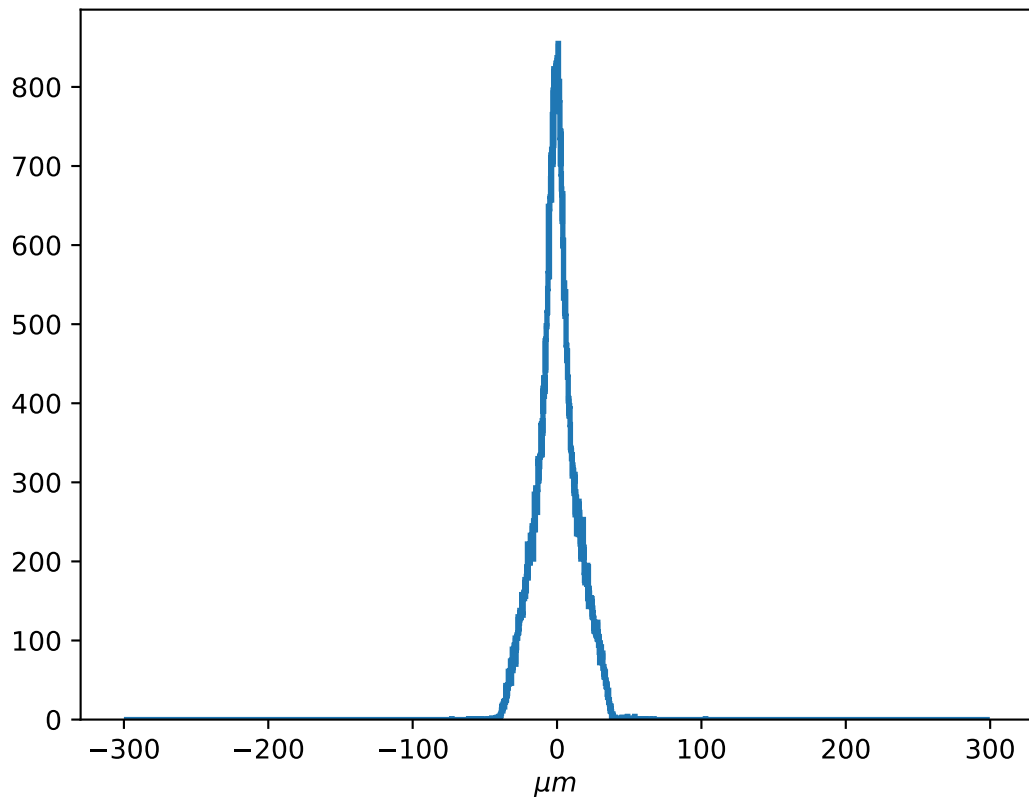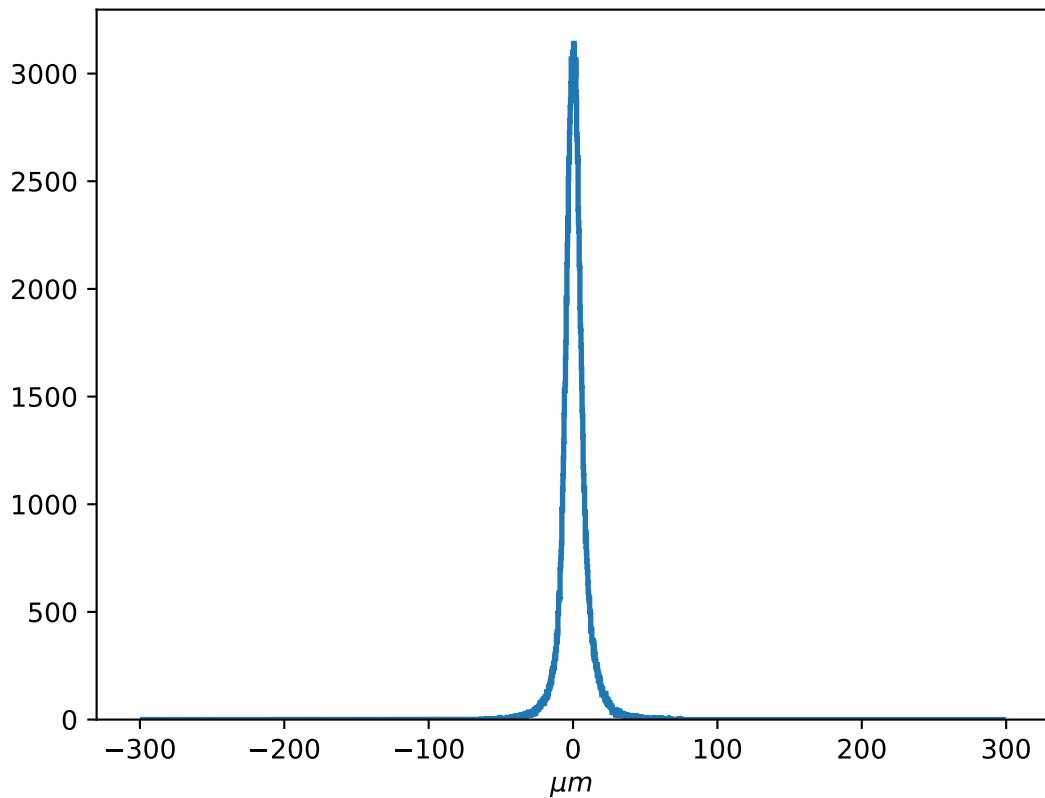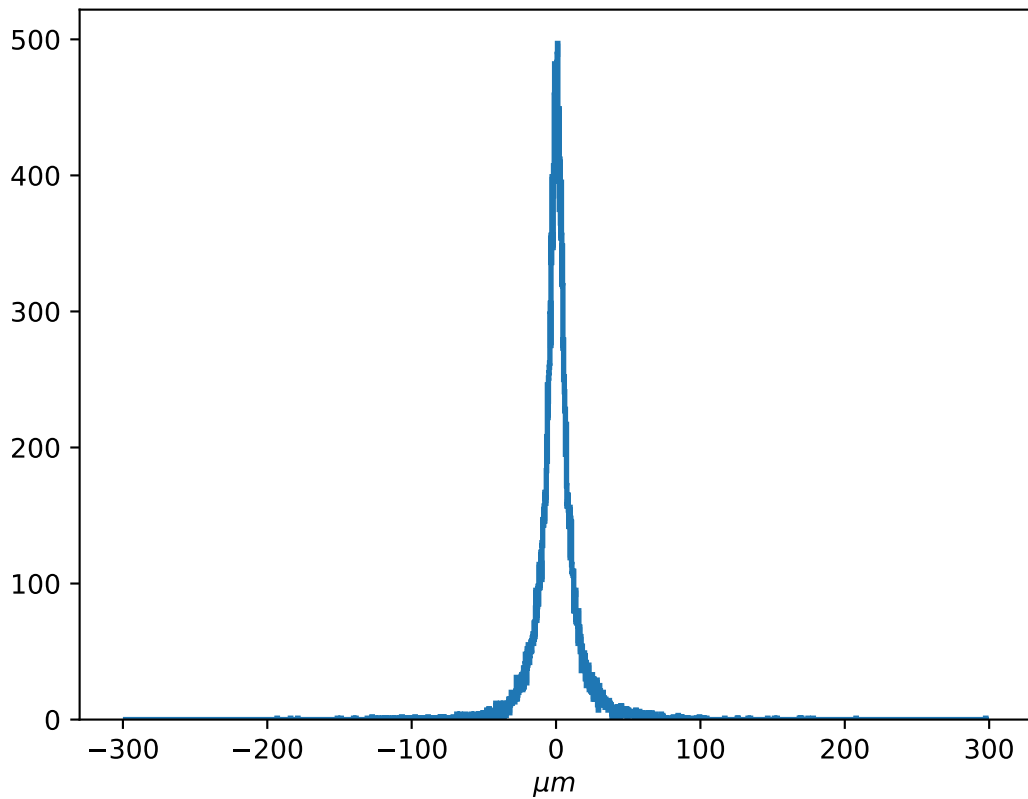residuals in x for clustersize = 1, $\sigma = 13.78$
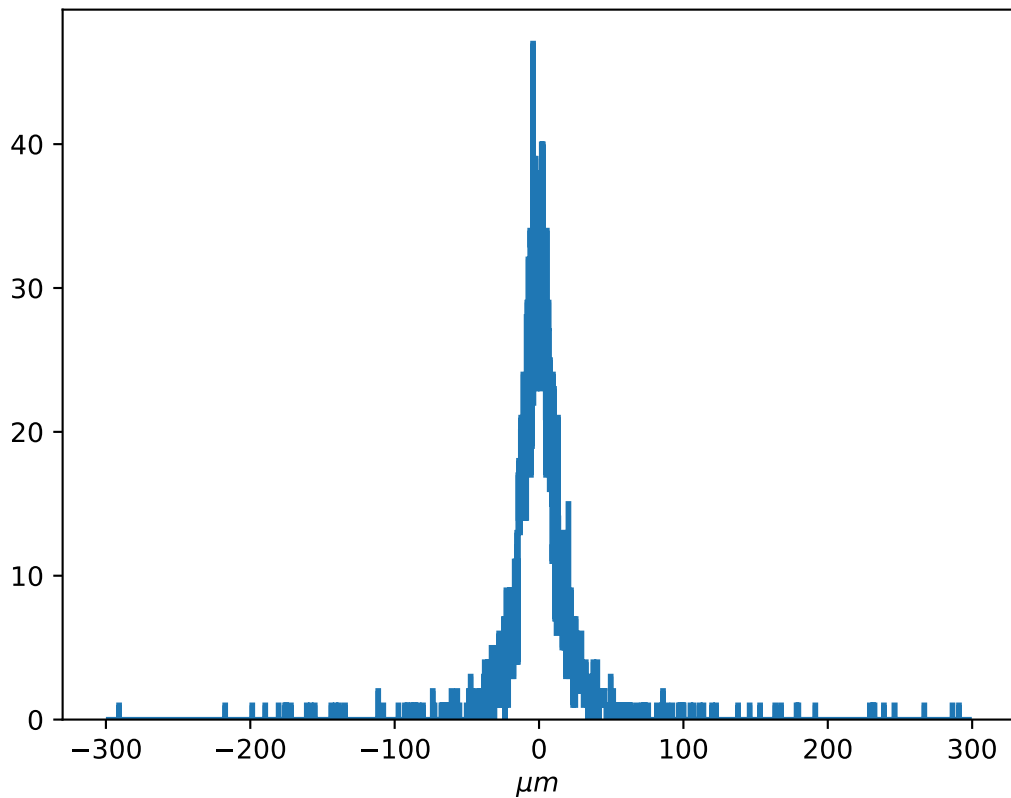
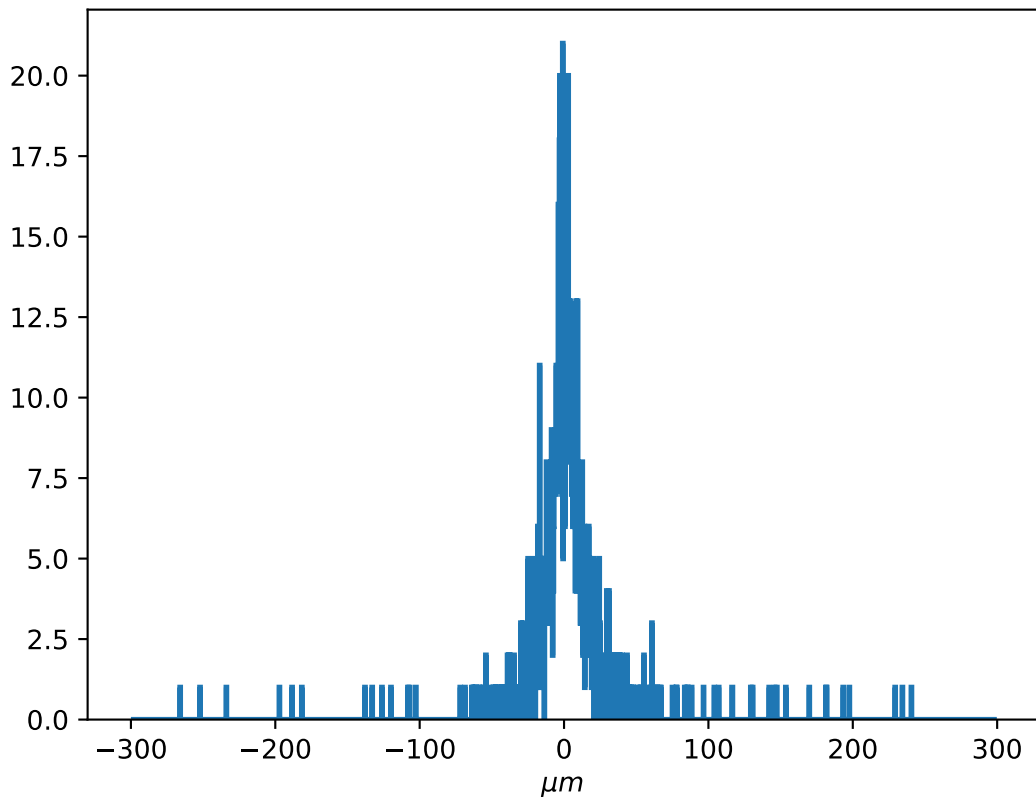residuals in x for clustersize = 2, $\sigma = 8.98$

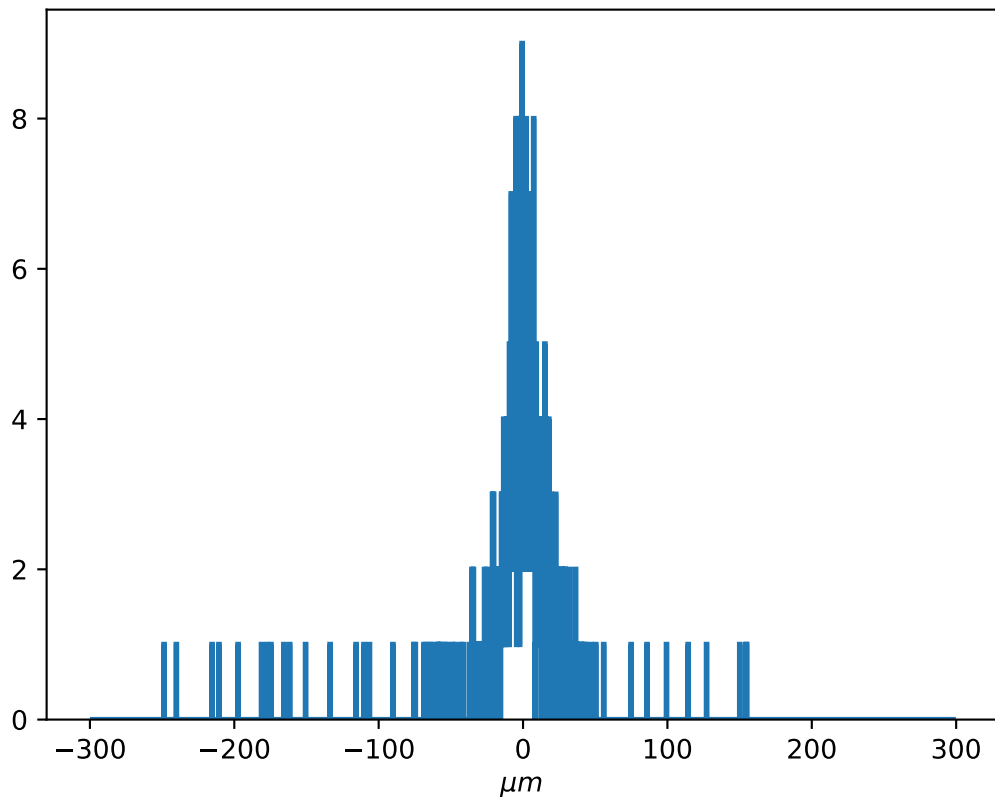residuals in x for clustersize = 3, σ = 15.79

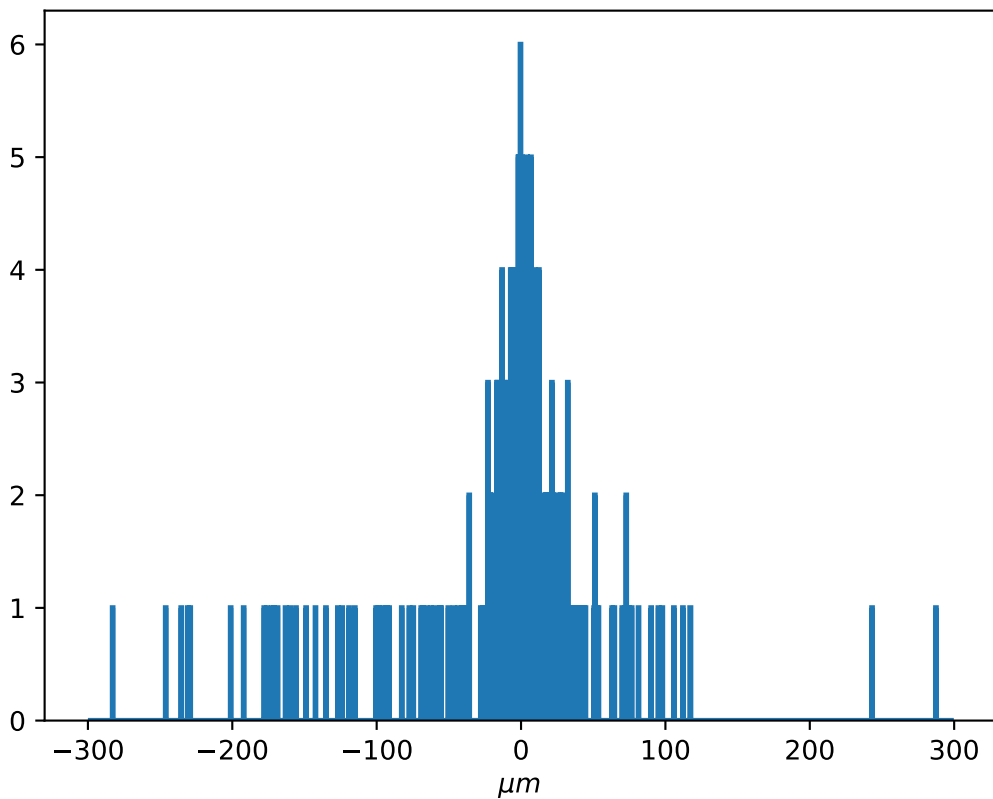residuals in x for clustersize = 4, $\sigma = 27.71$
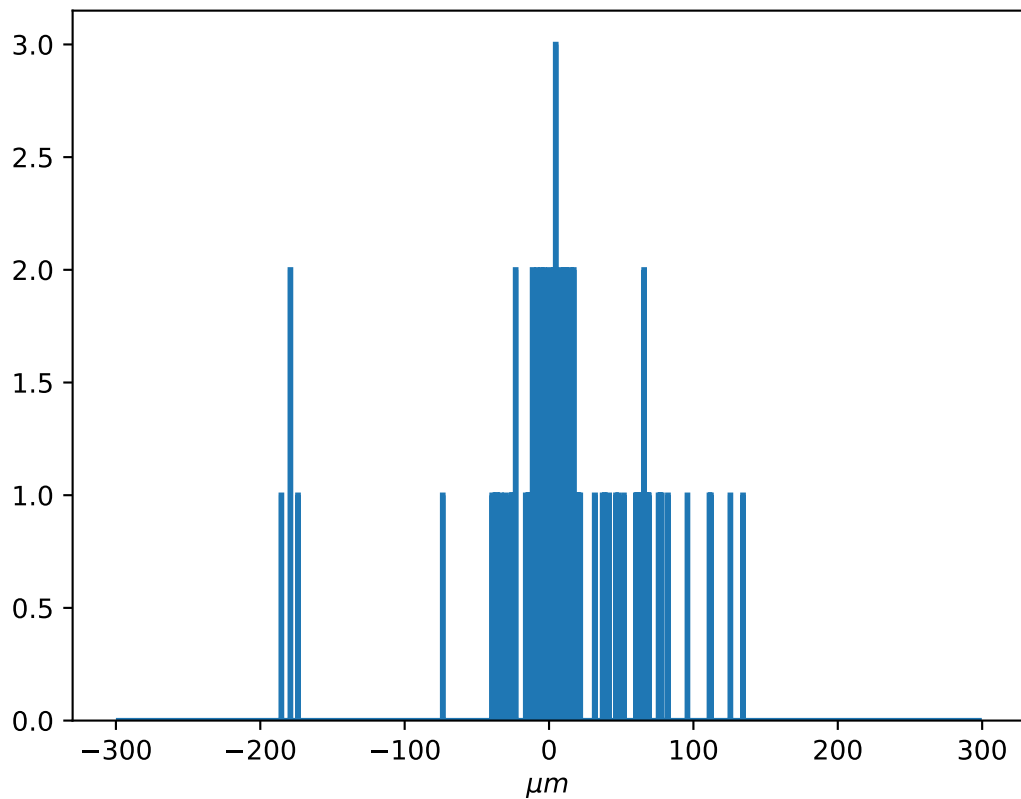
residuals in x for clustersize = 5, $\sigma = 37.27$

residuals in x for clustersize = 6, σ = 48.13

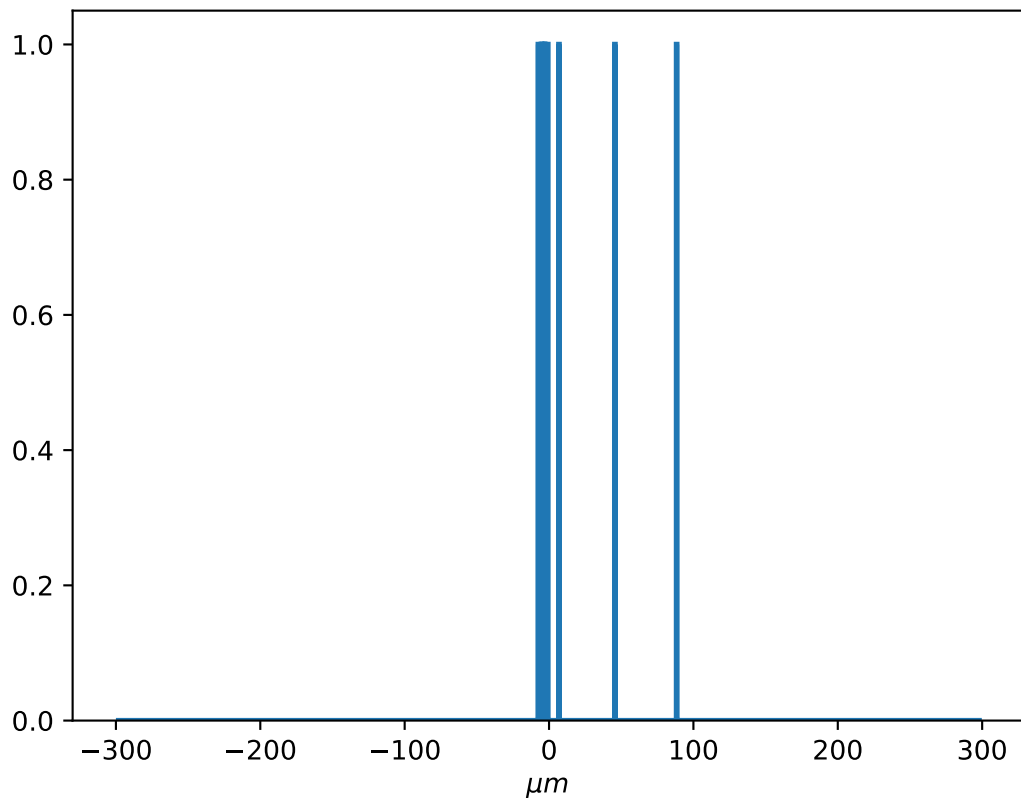residuals in x for clustersize = 7, σ = 72.77

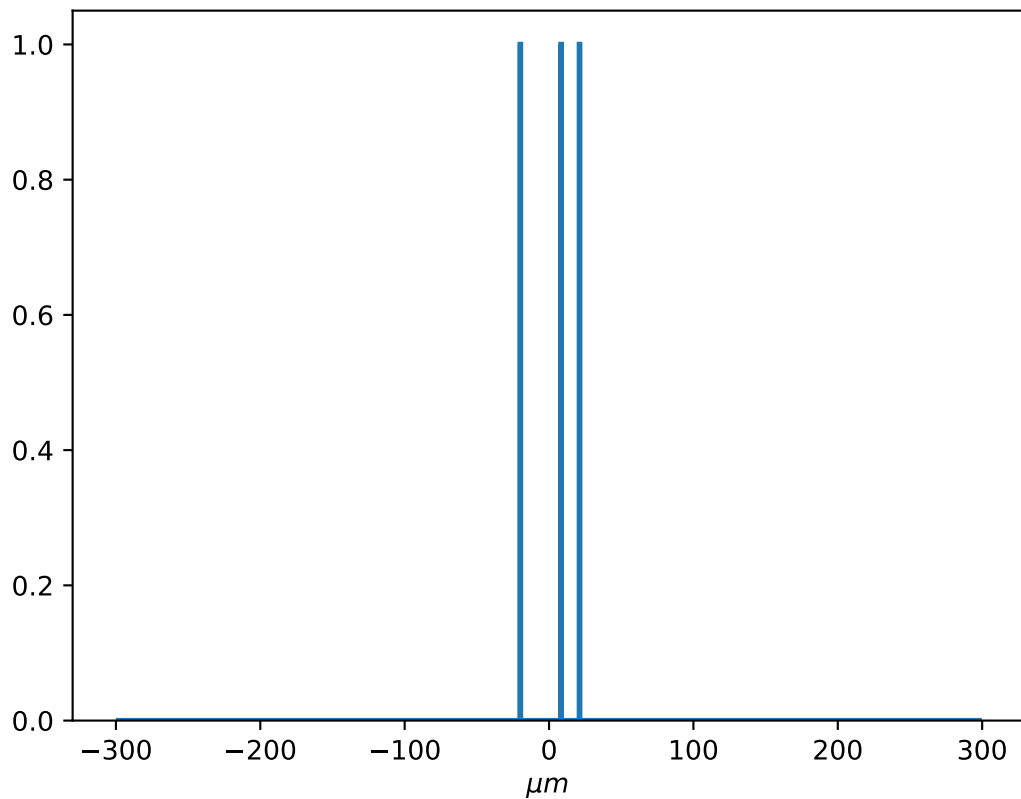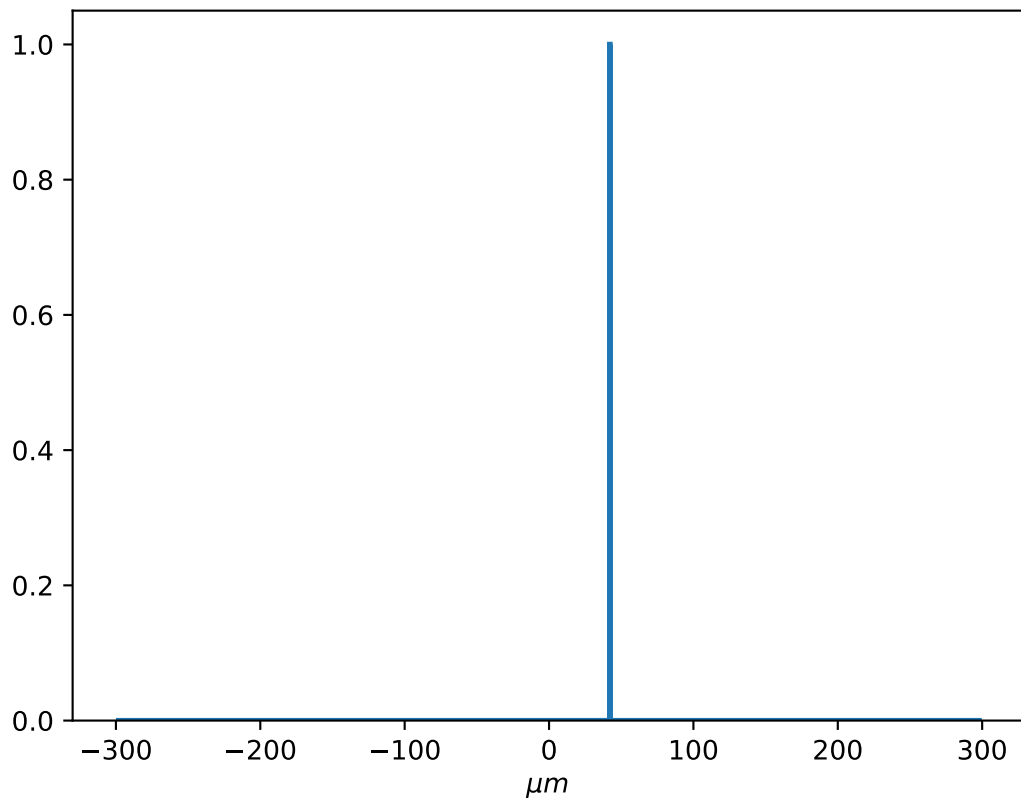residuals in x for clustersize = 8, $\sigma = 50.39$

residuals in x for clustersize = 9, σ = 29.53

residuals in x for clustersize = 10, $\sigma = 17.08$

residuals in x for clustersize = 11, $\sigma = 0.00$

residuals in x for clustersize = 13, σ = 0.00