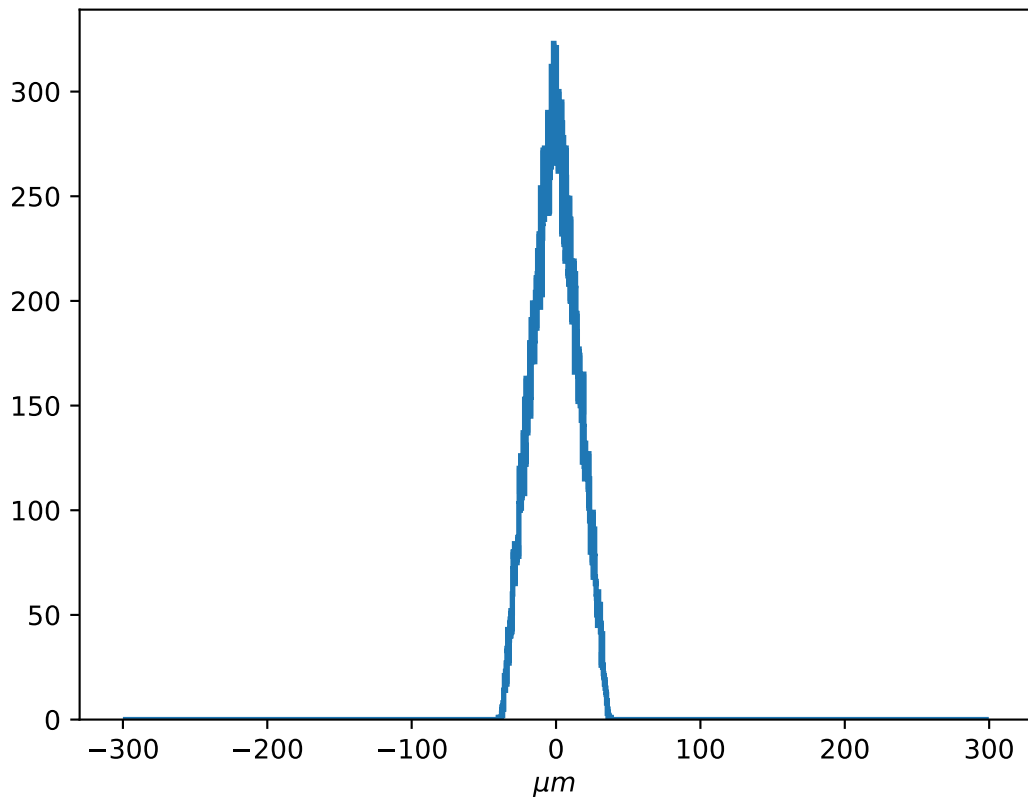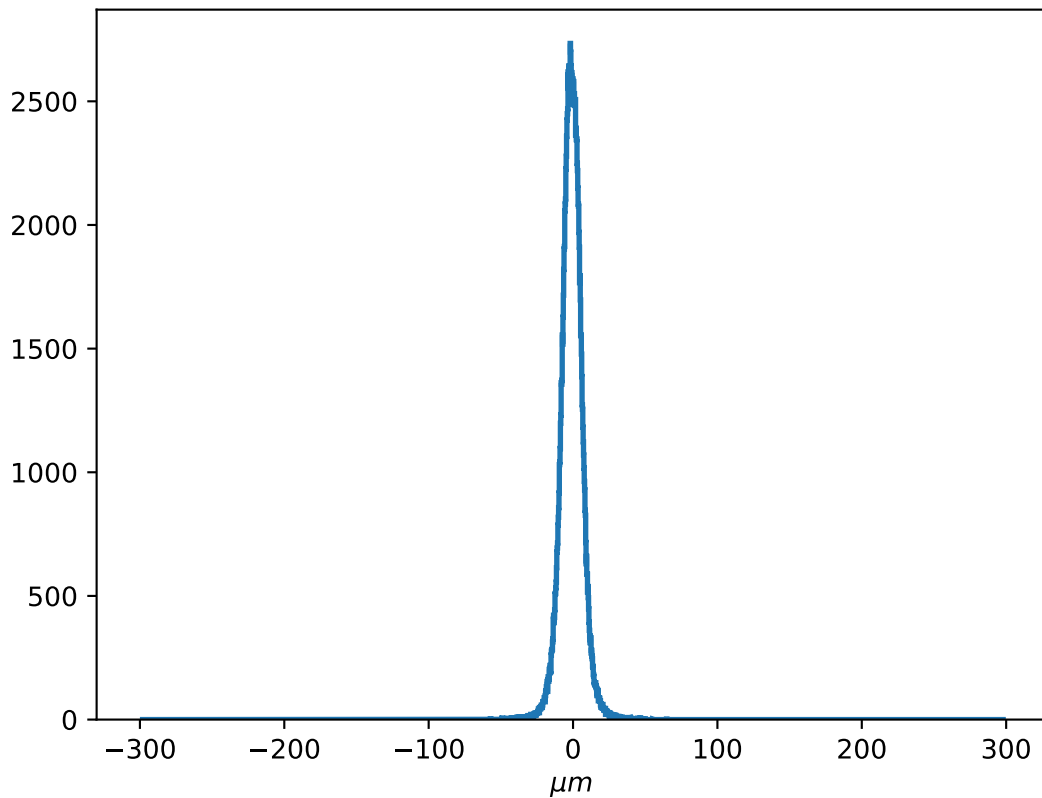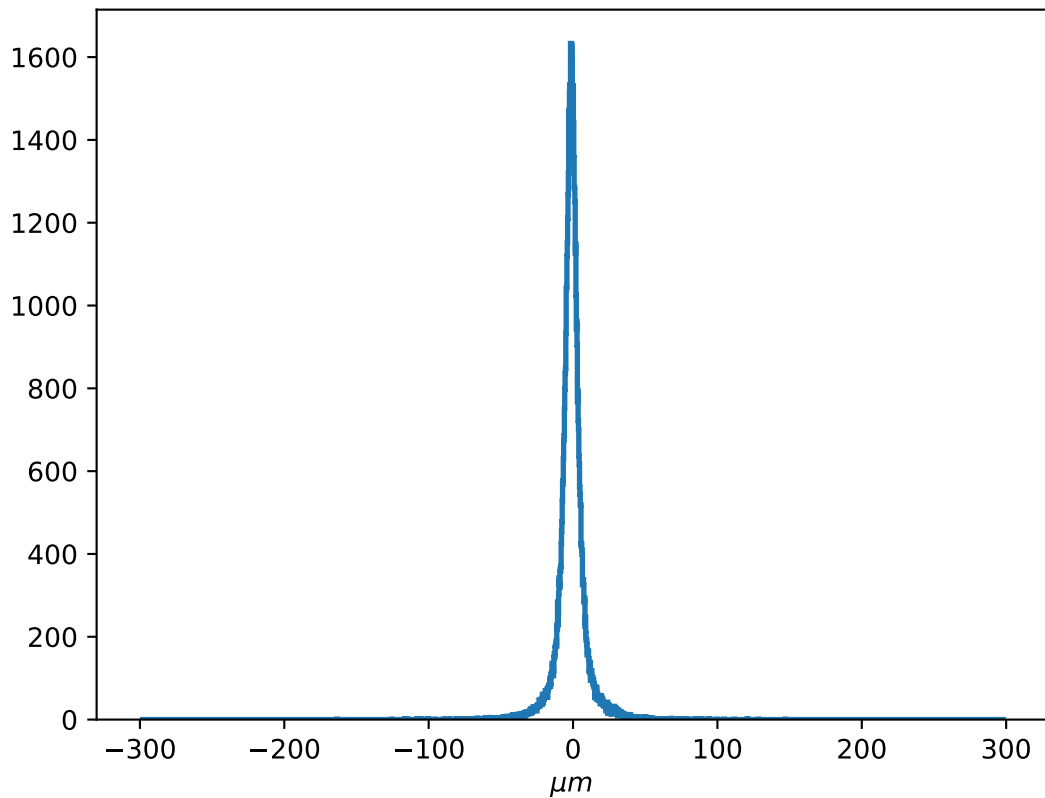residuals in x for clustersize = 1, $\sigma = 14.95$
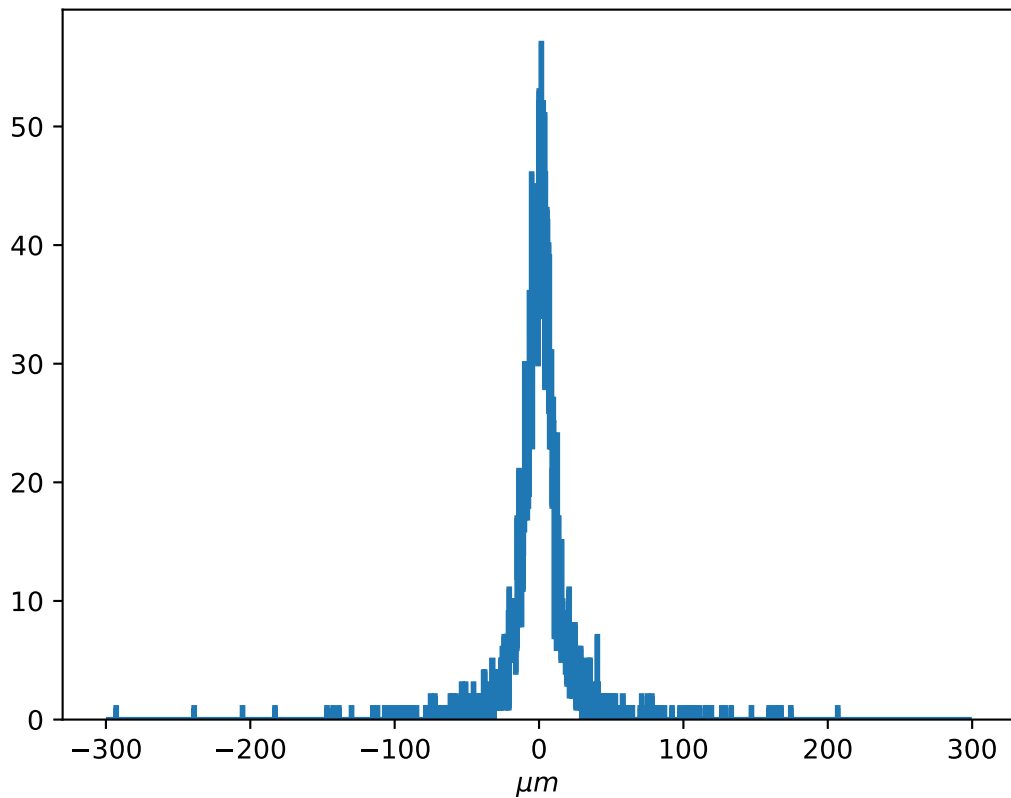
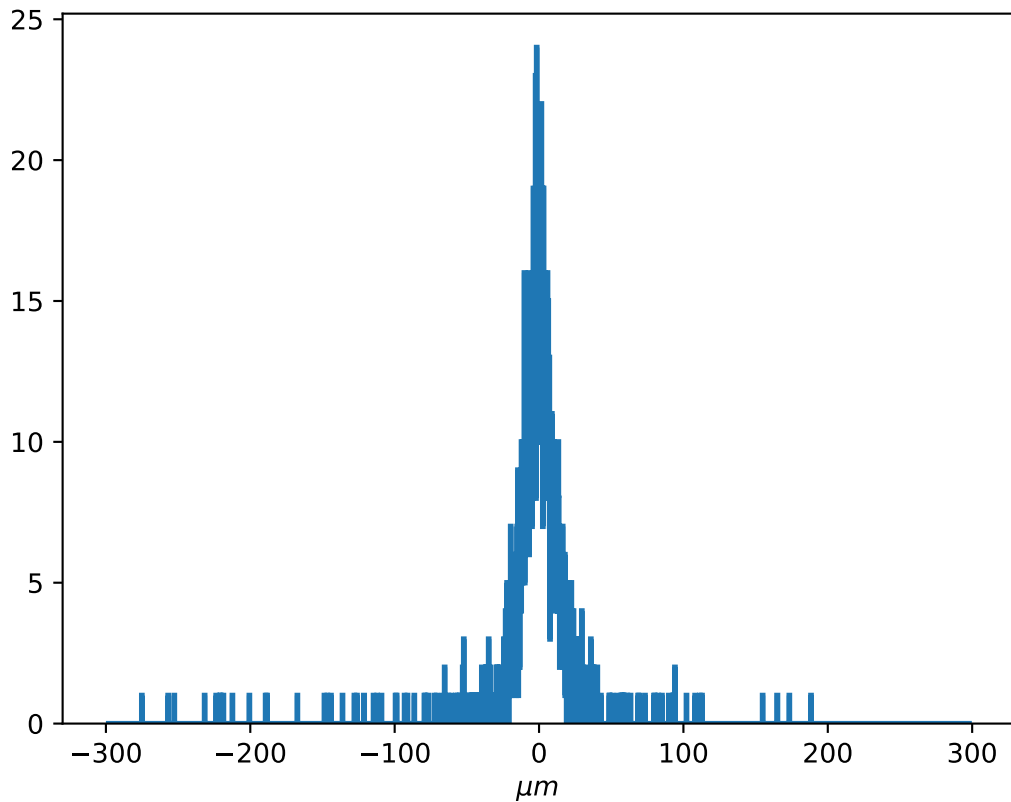residuals in x for clustersize = 2, σ = 7.52

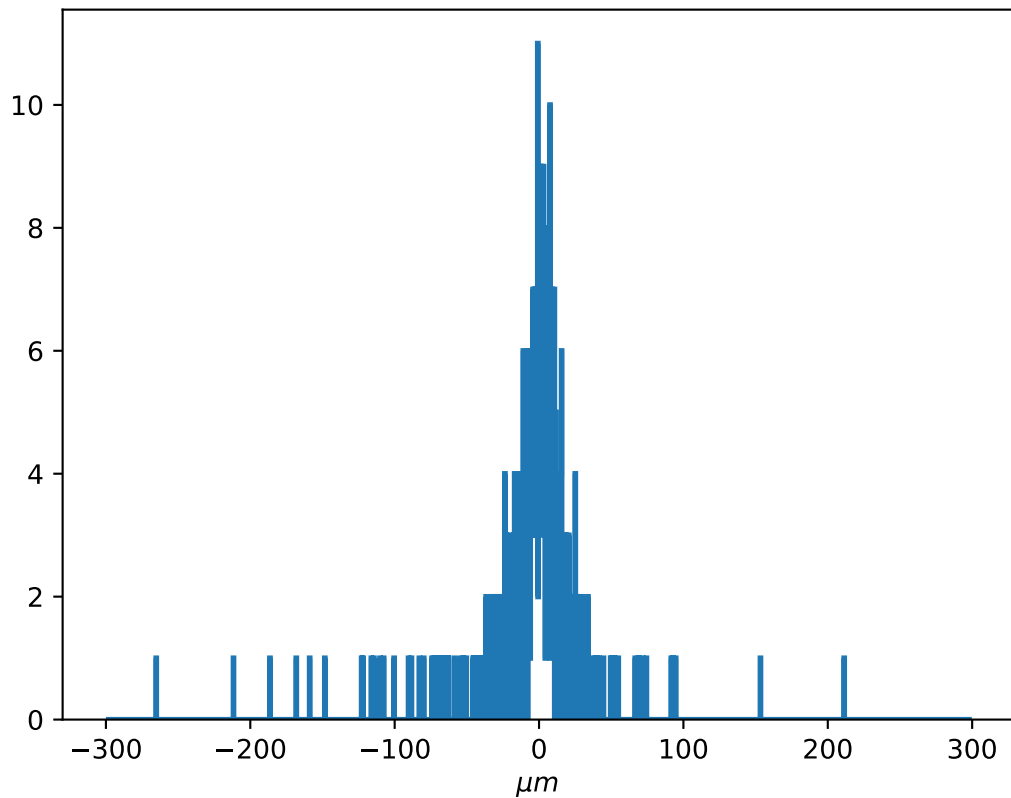residuals in x for clustersize = 3, σ = 9.75

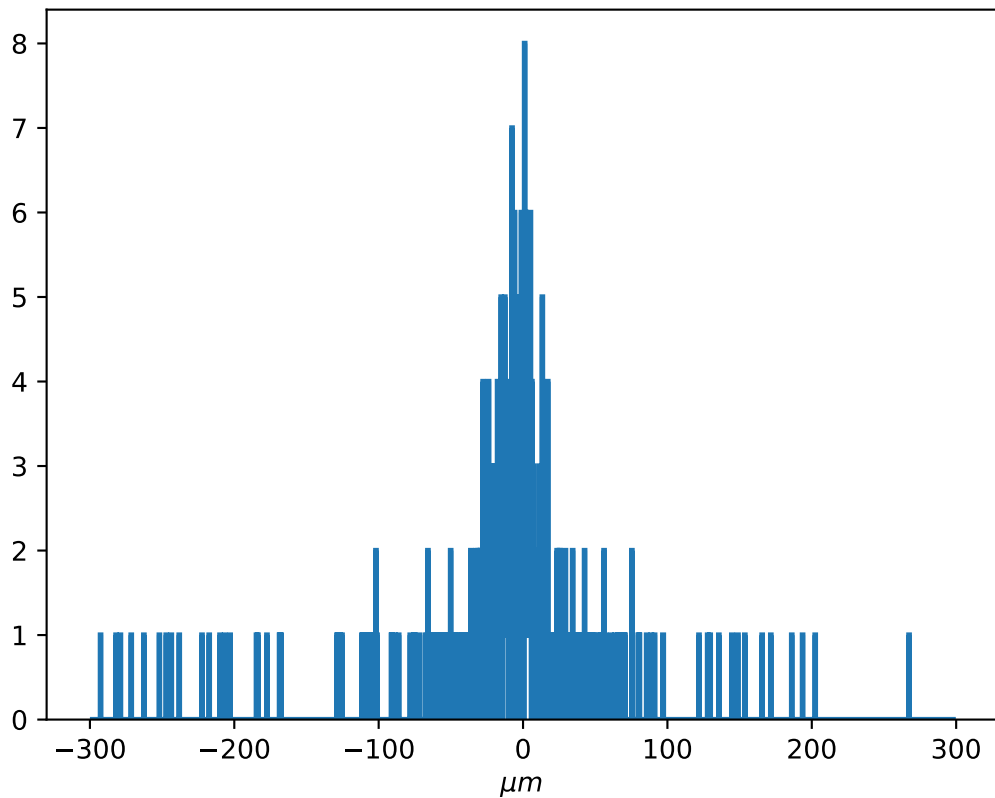residuals in x for clustersize = 4, $\sigma = 21.40$
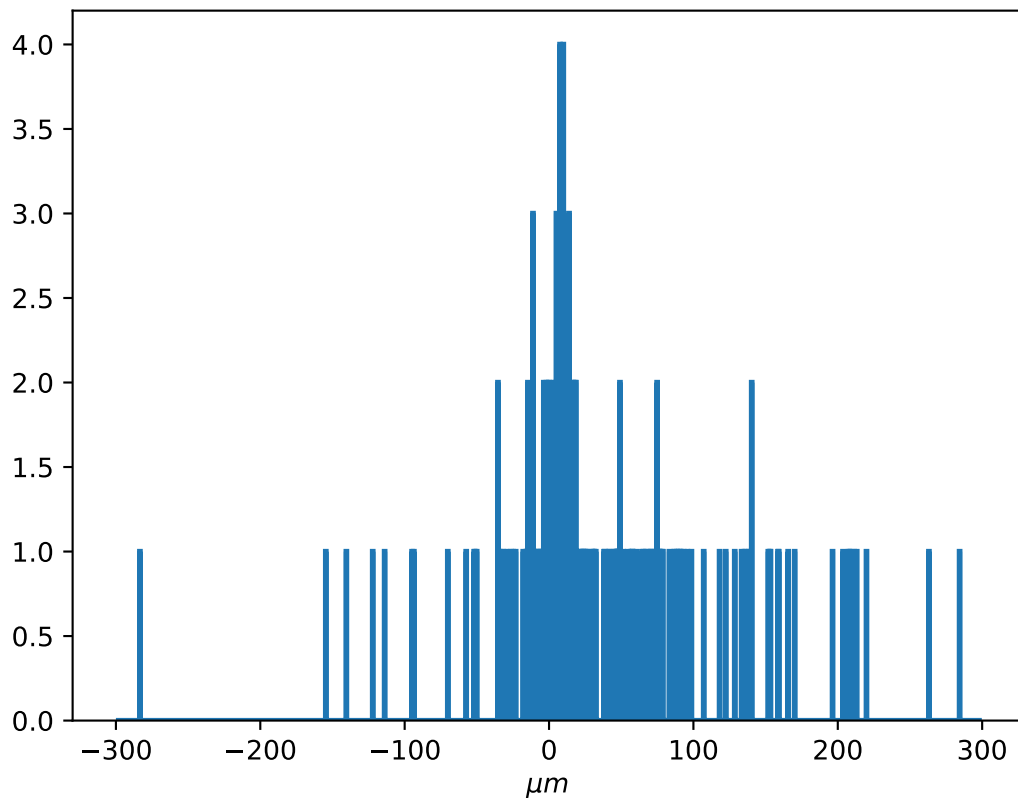
residuals in x for clustersize = 5, $\sigma = 30.85$

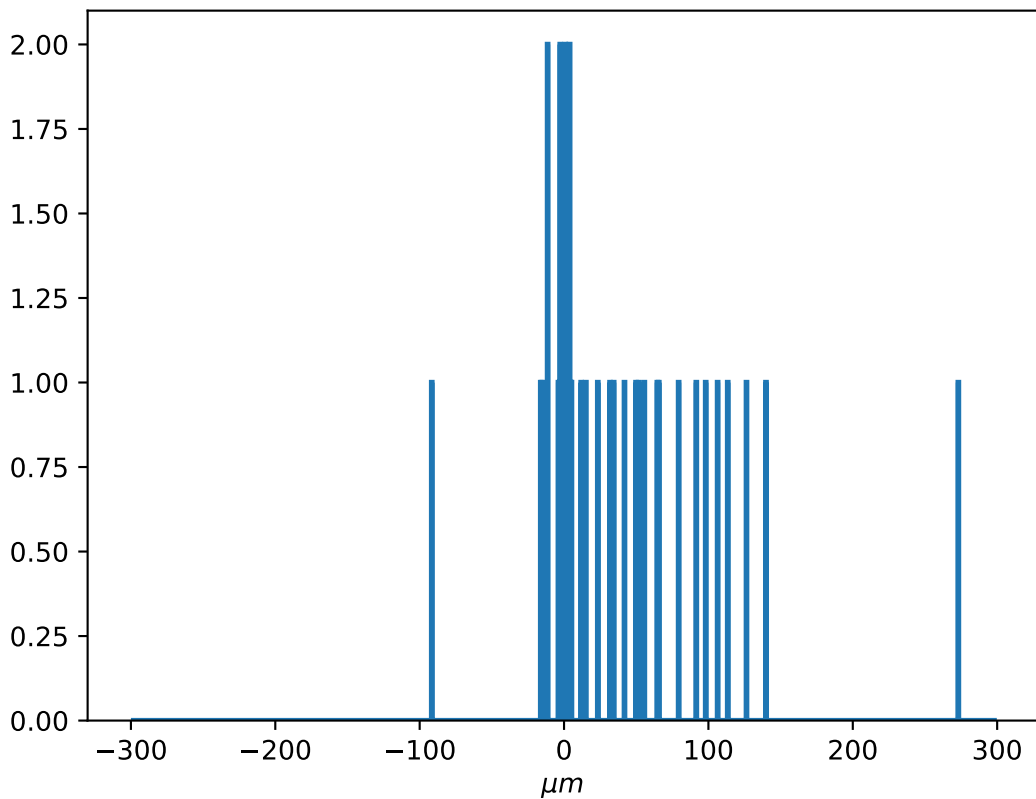residuals in x for clustersize = 6, σ = 35.83

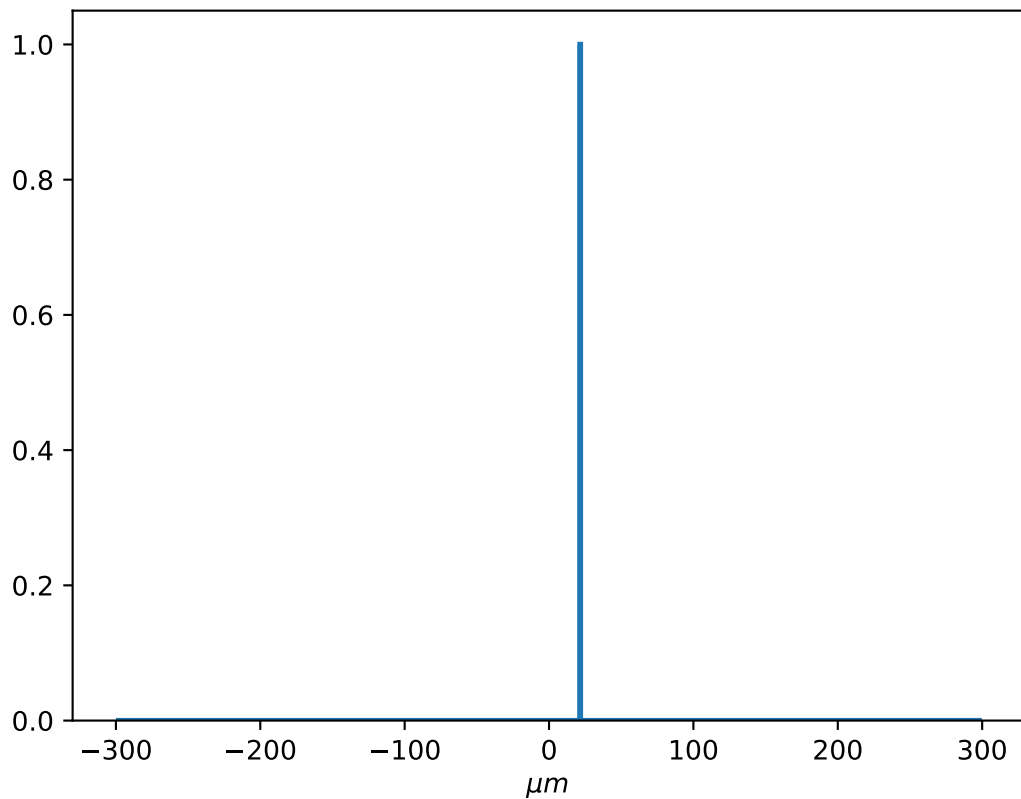residuals in x for clustersize = 7, $\sigma = 80.22$

residuals in x for clustersize = 8, $\sigma = 111.60$

residuals in x for clustersize = 9, σ = 61.43

residuals in x for clustersize = 10, $\sigma = 0.00$

residuals in x for clustersize = 11, σ = 0.00