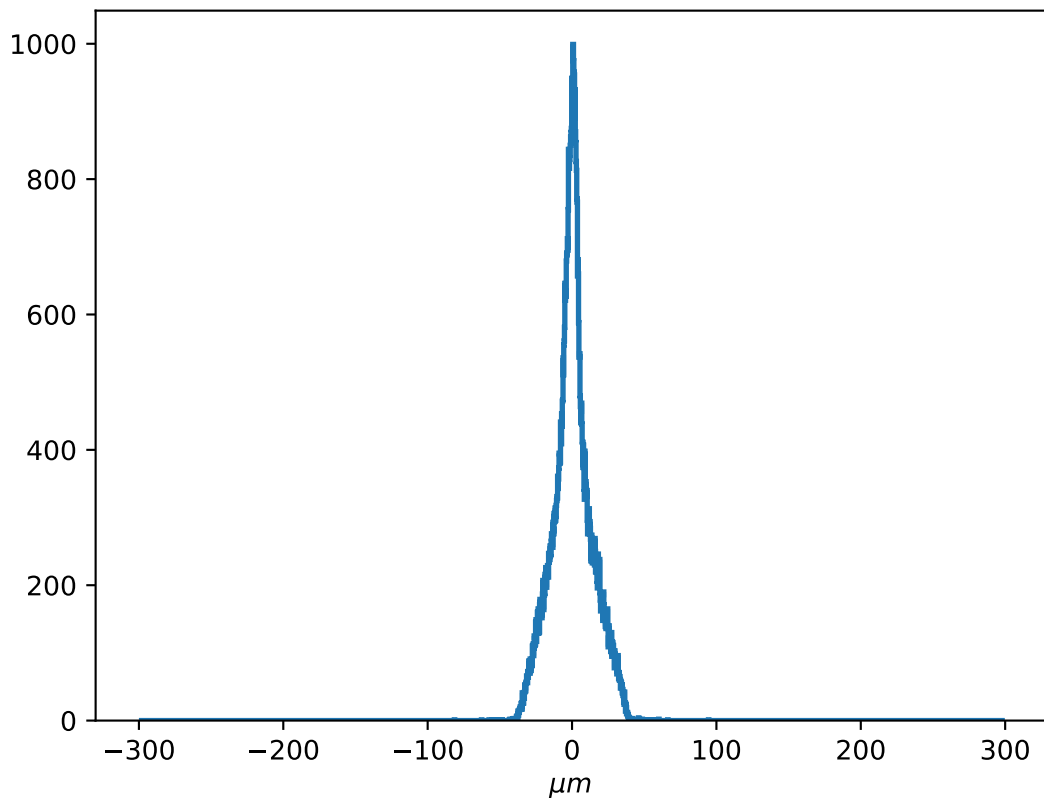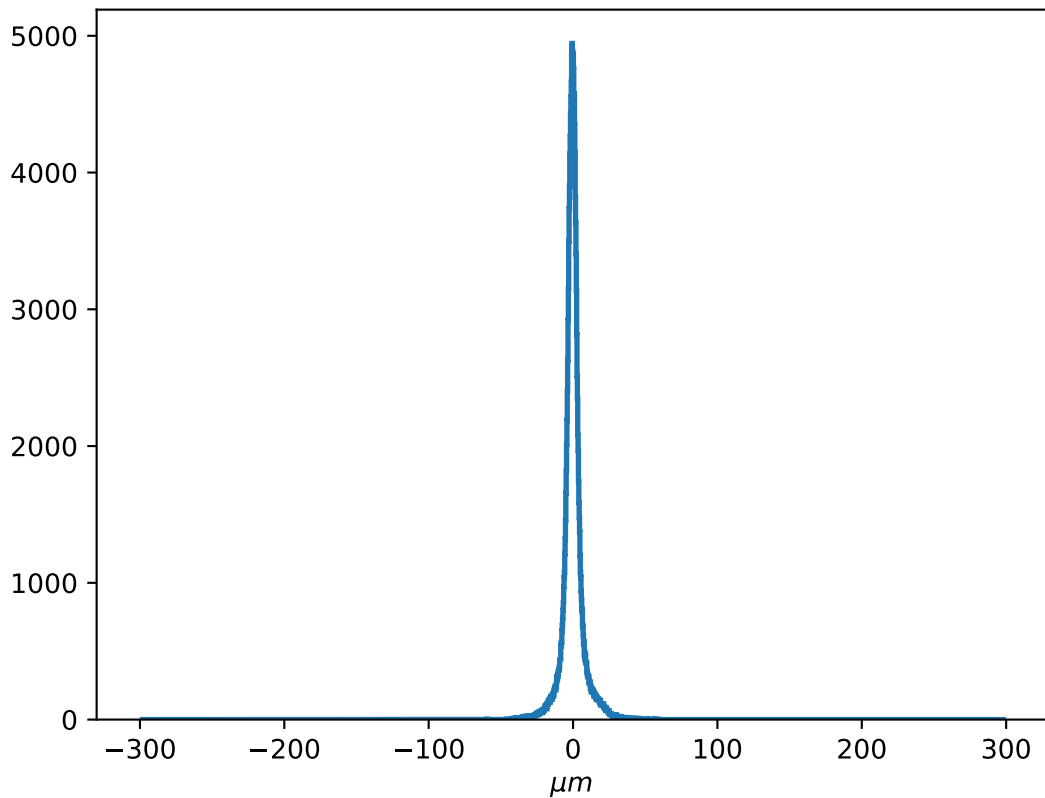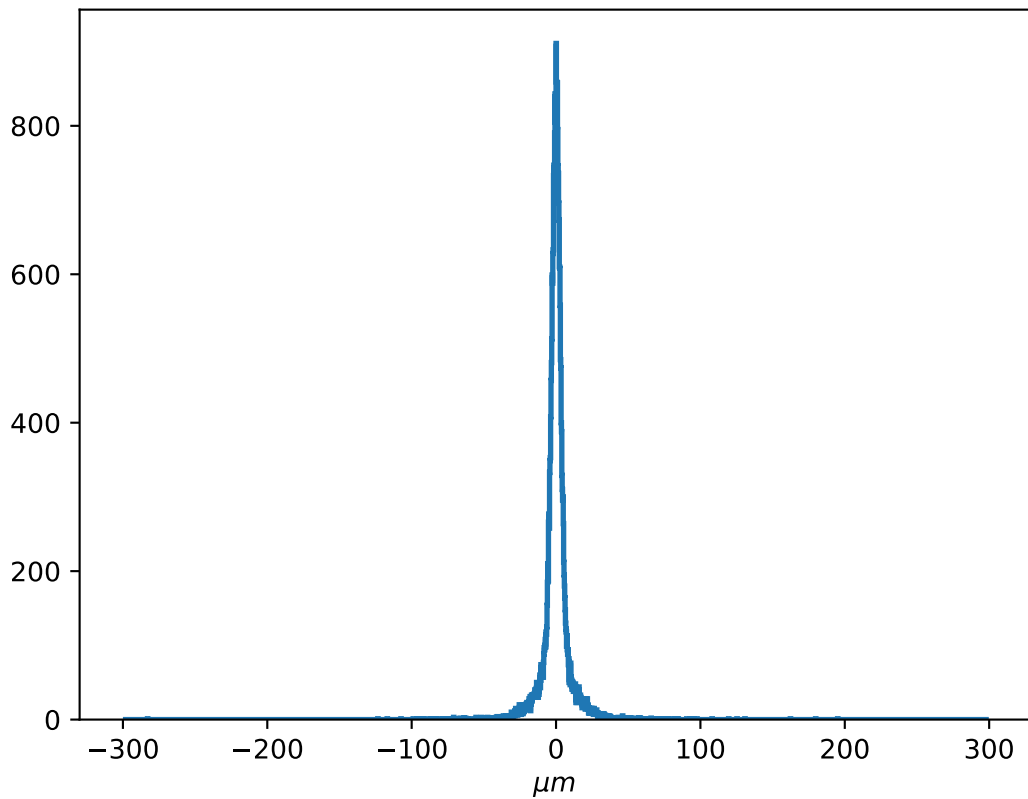residuals in x for clustersize = 1, $\sigma = 13.58$
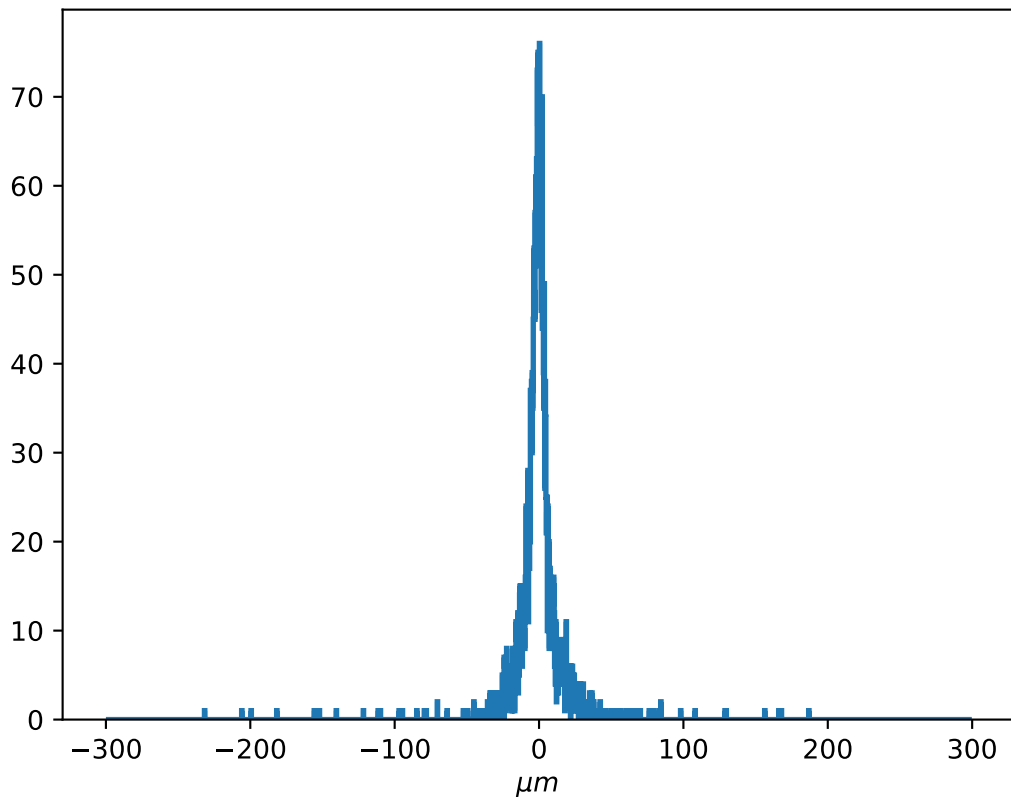
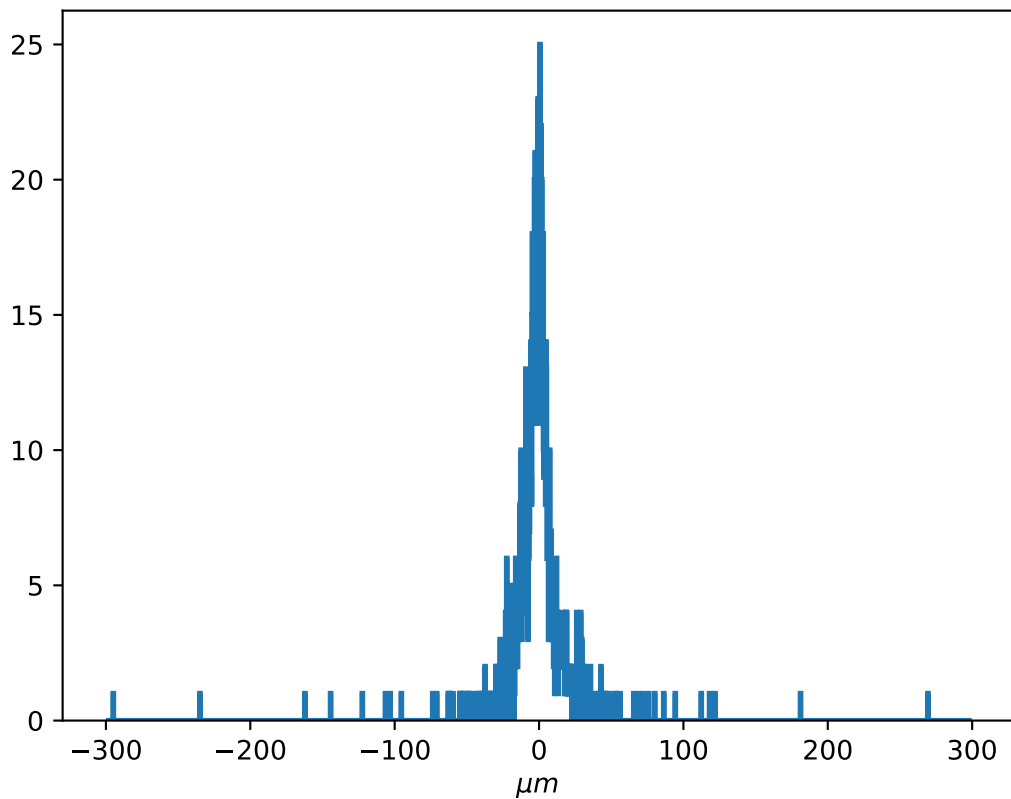residuals in x for clustersize = 2, σ = 7.23

residuals in x for clustersize = 3, $\sigma = 11.17$
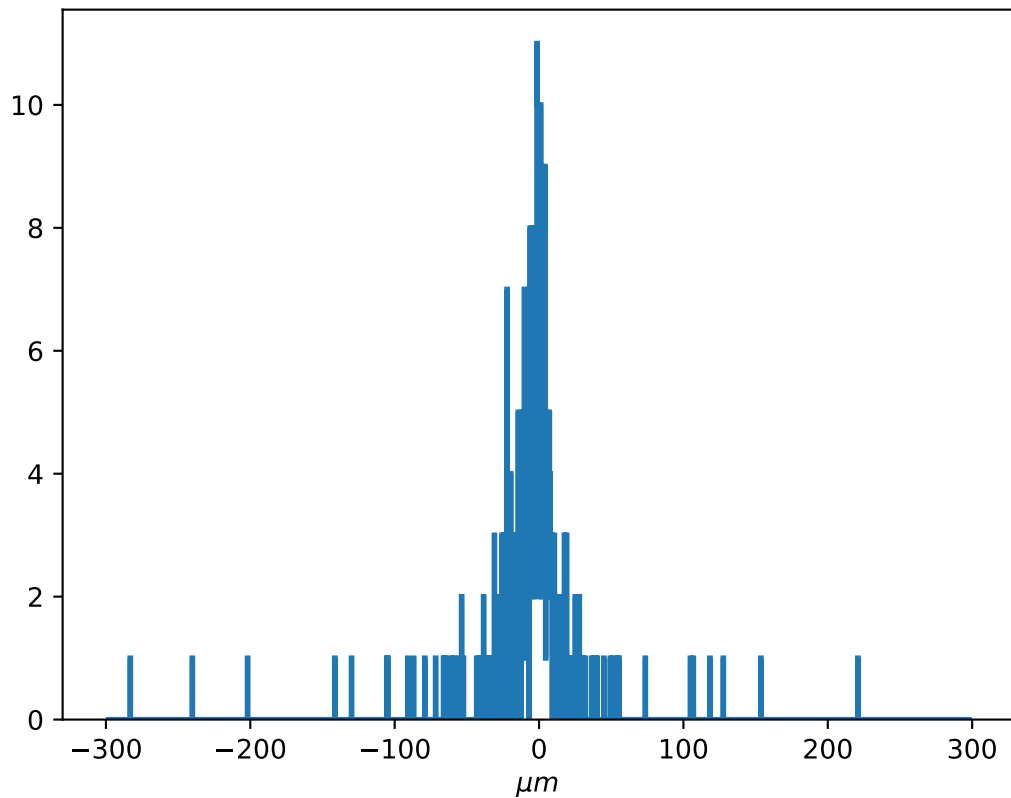
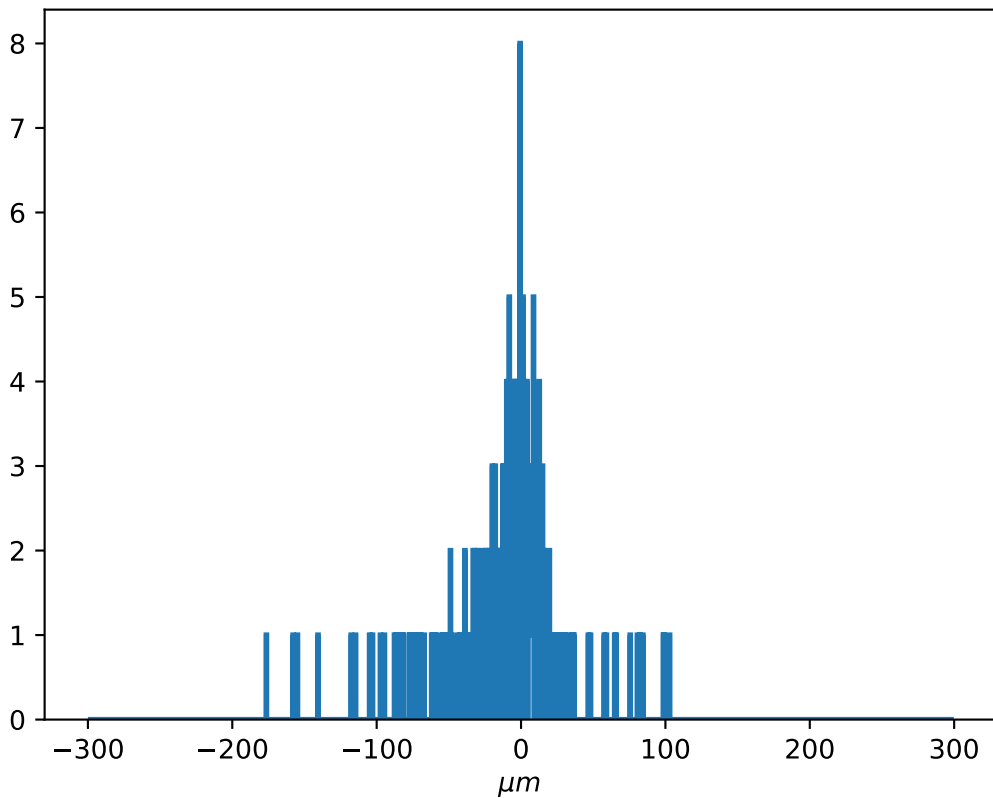residuals in x for clustersize = 4, σ = 21.90
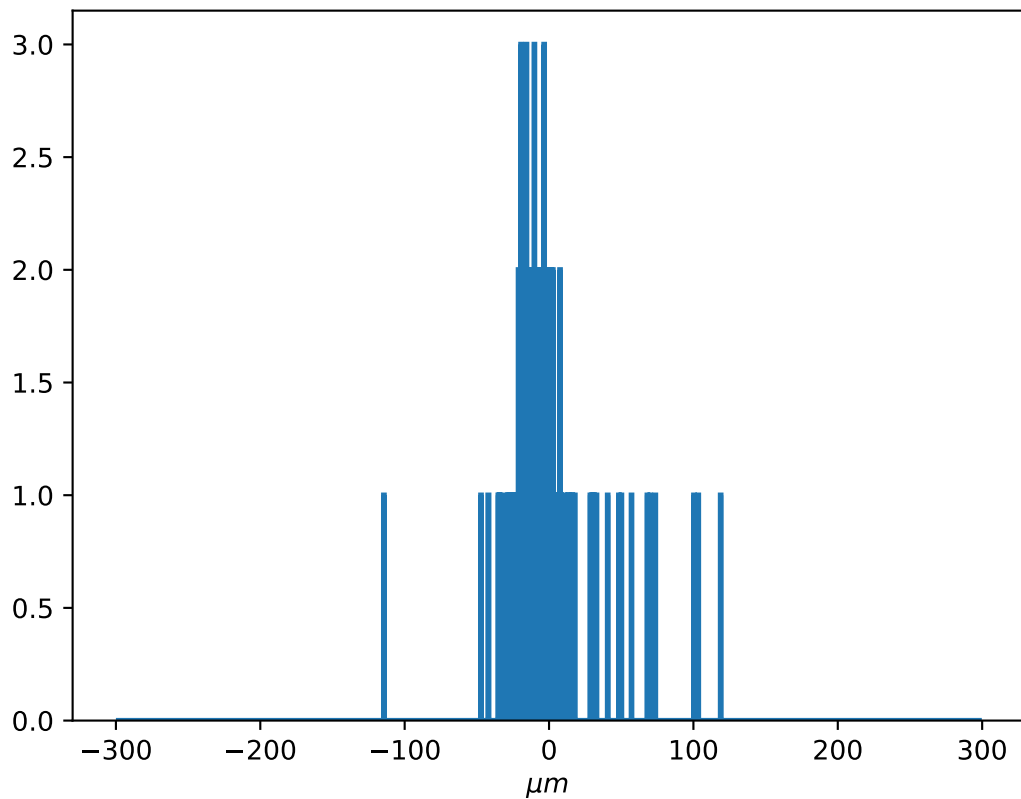
residuals in x for clustersize = 5, $\sigma = 90.92$

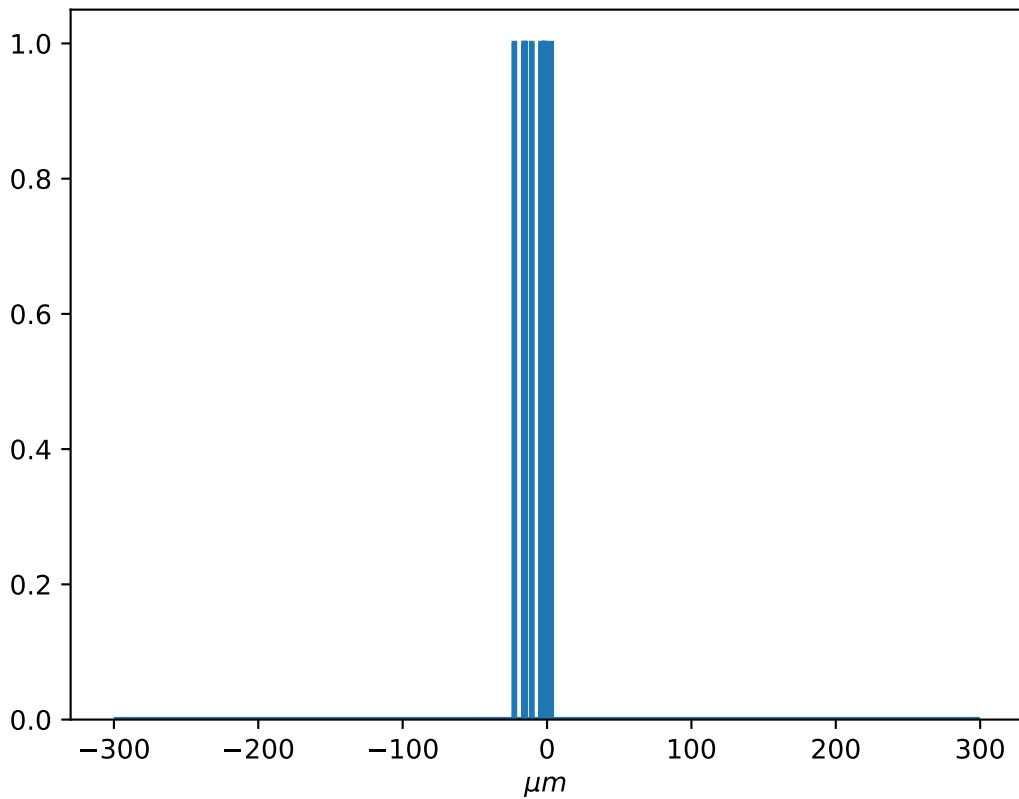residuals in x for clustersize = 6, σ = 51.17

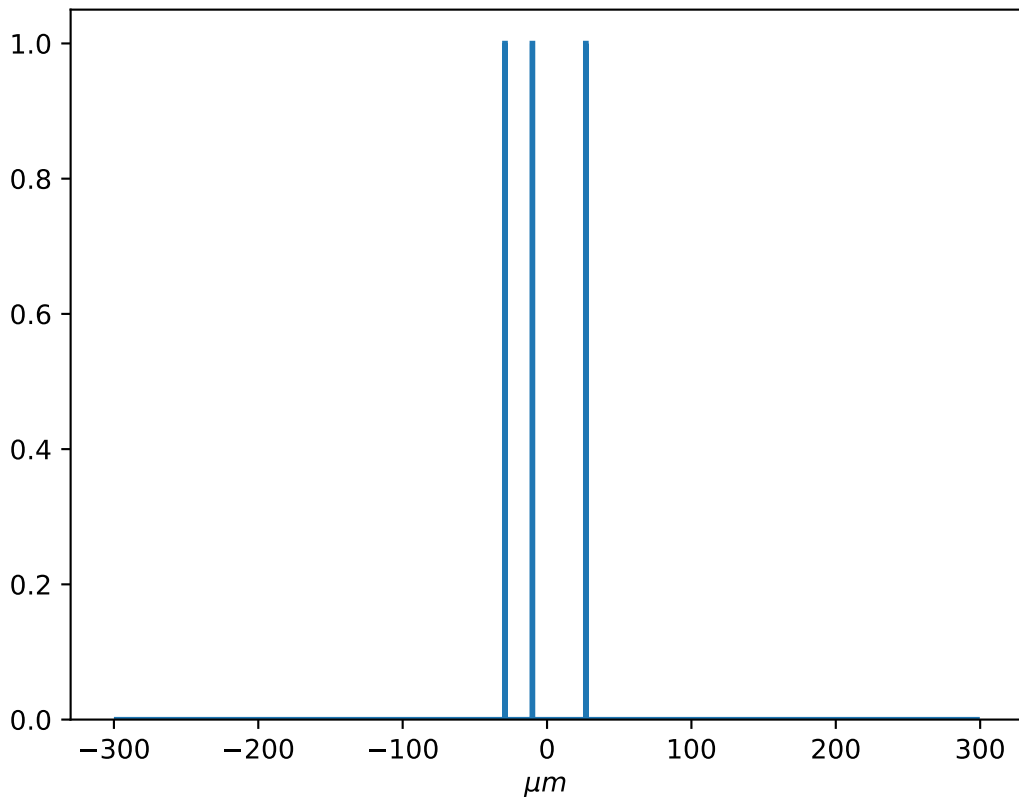residuals in x for clustersize = 7, σ = 127.22

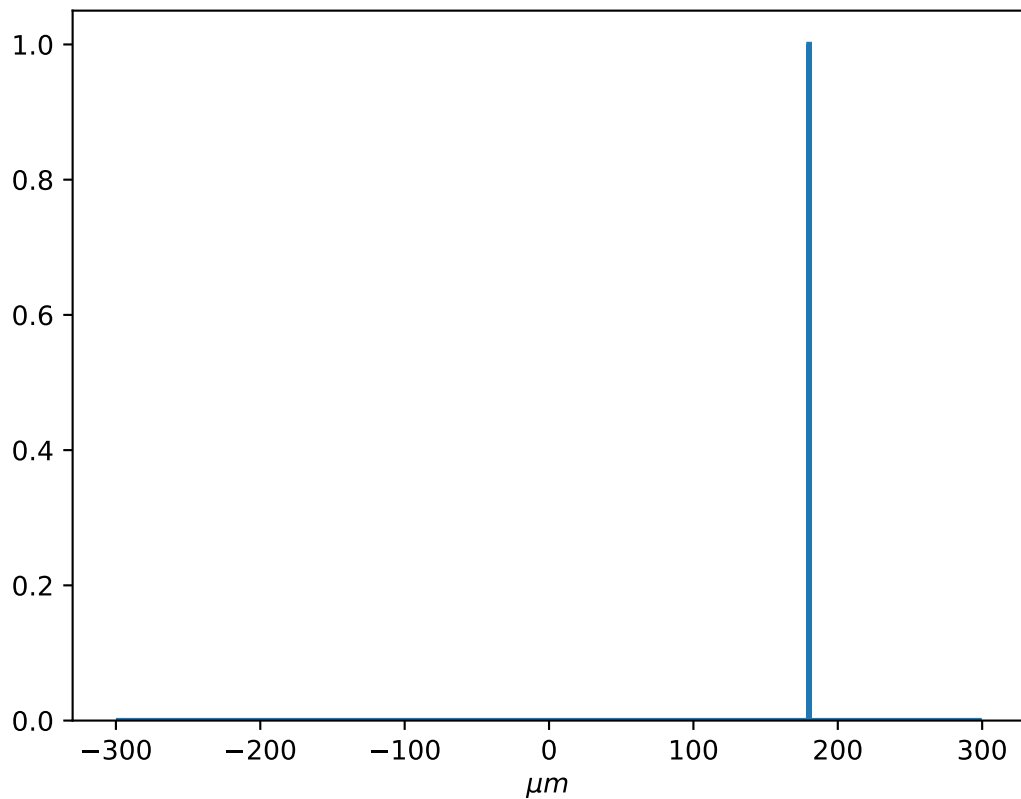residuals in x for clustersize = 8, σ = 109.34

residuals in x for clustersize = 9, σ = 439.39

residuals in x for clustersize = 10, $\sigma = 23.29$

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

residuals in x for clustersize = 13, $\sigma = 0.00$