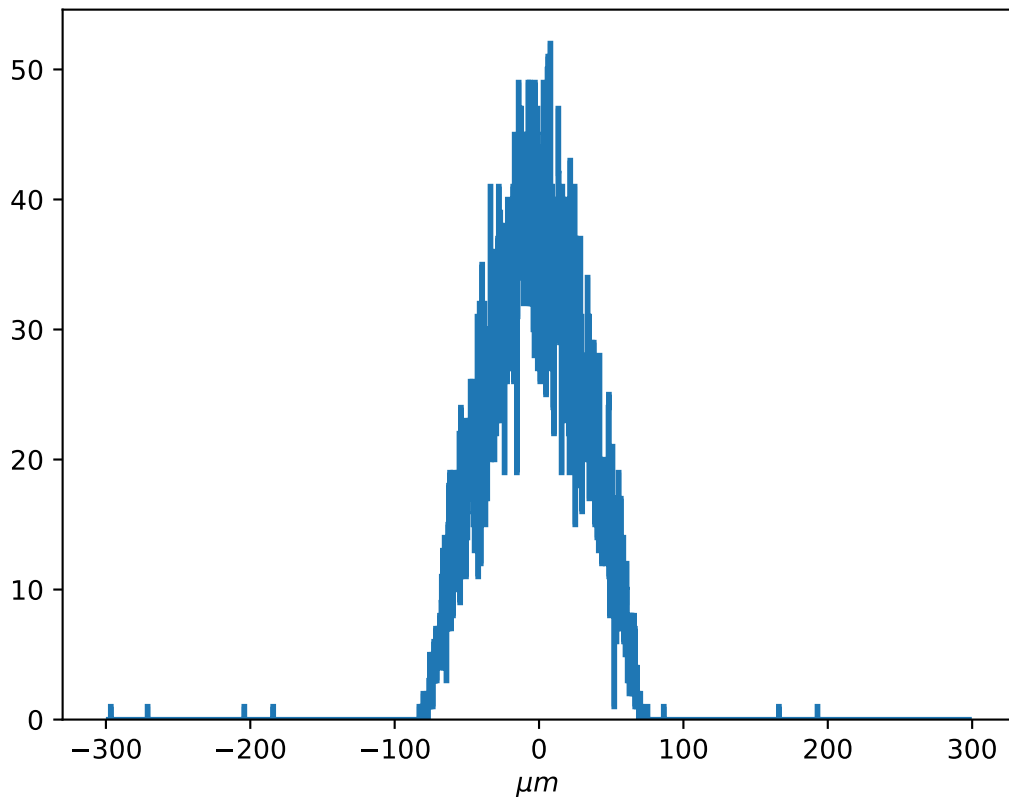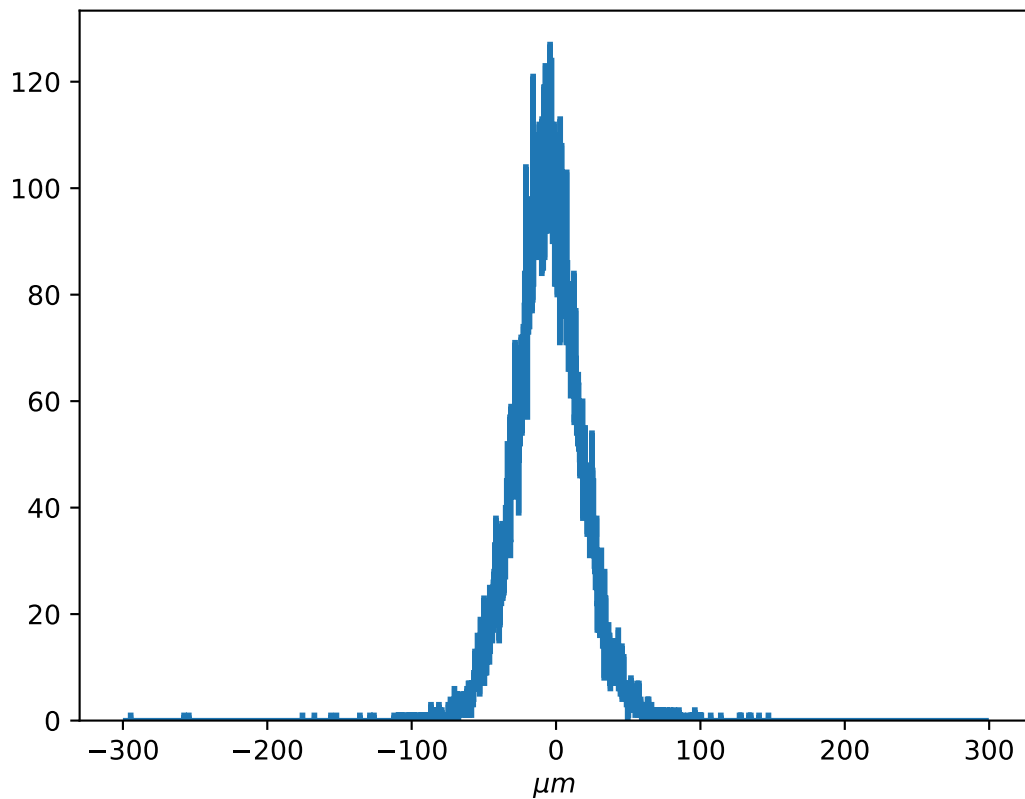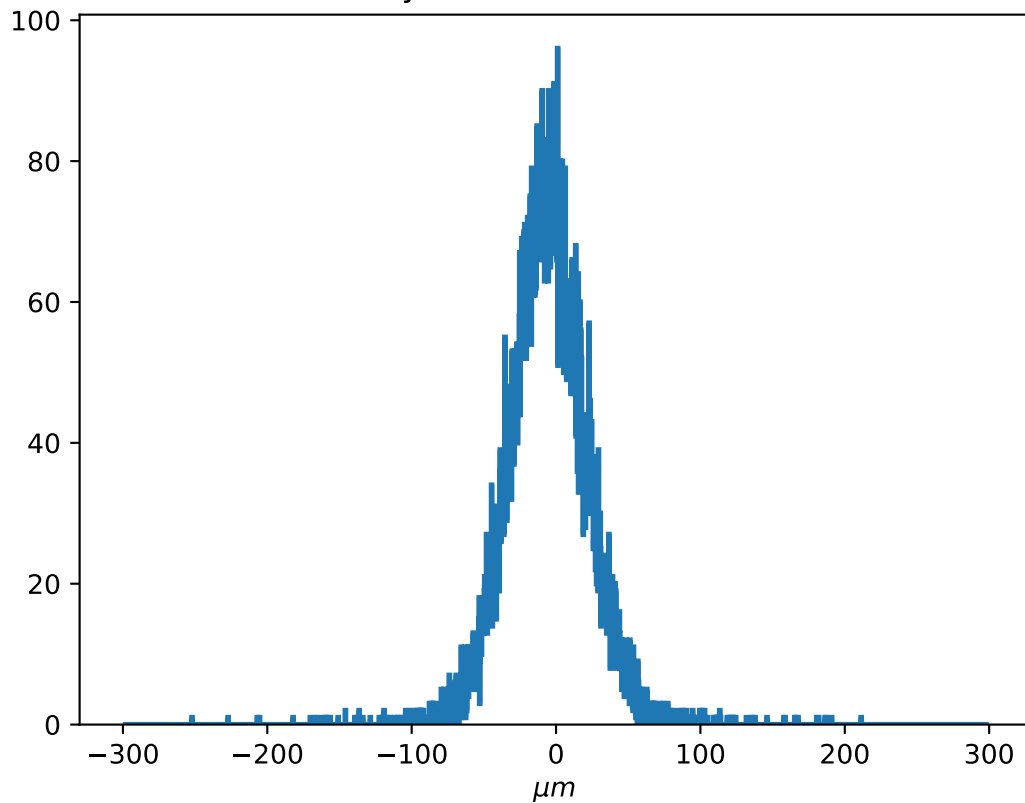residuals in y for clustersize = 1, $\sigma = 46.69$
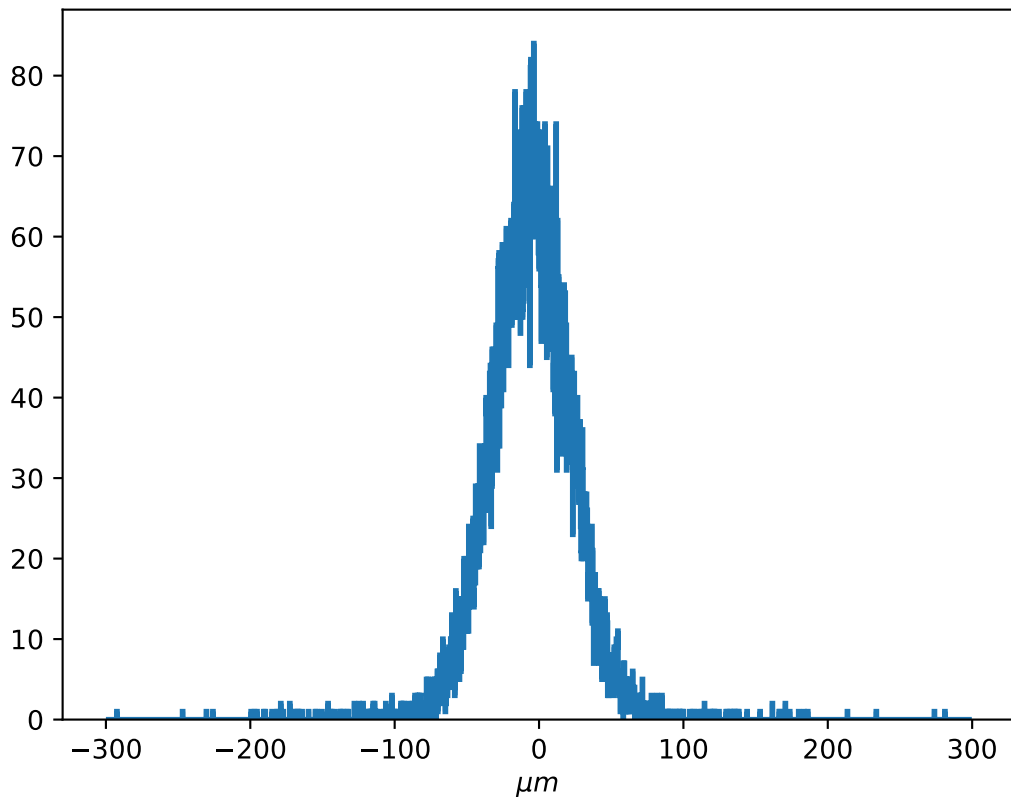
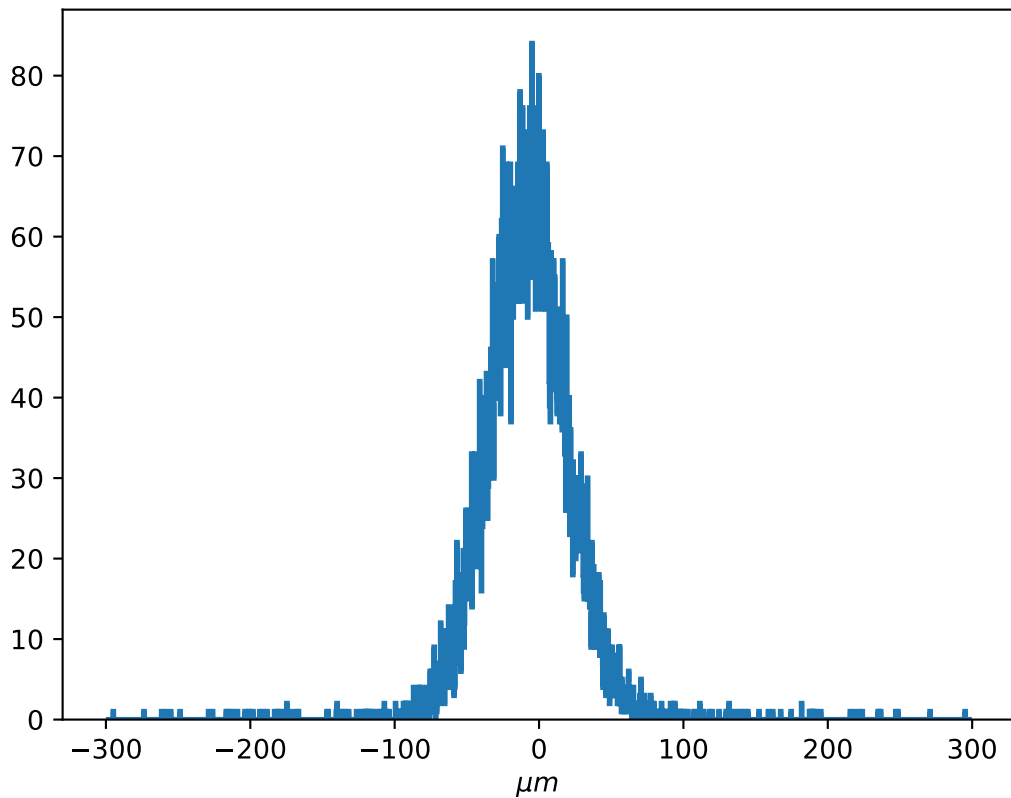residuals in y for clustersize = 2, $\sigma$ = 38.65

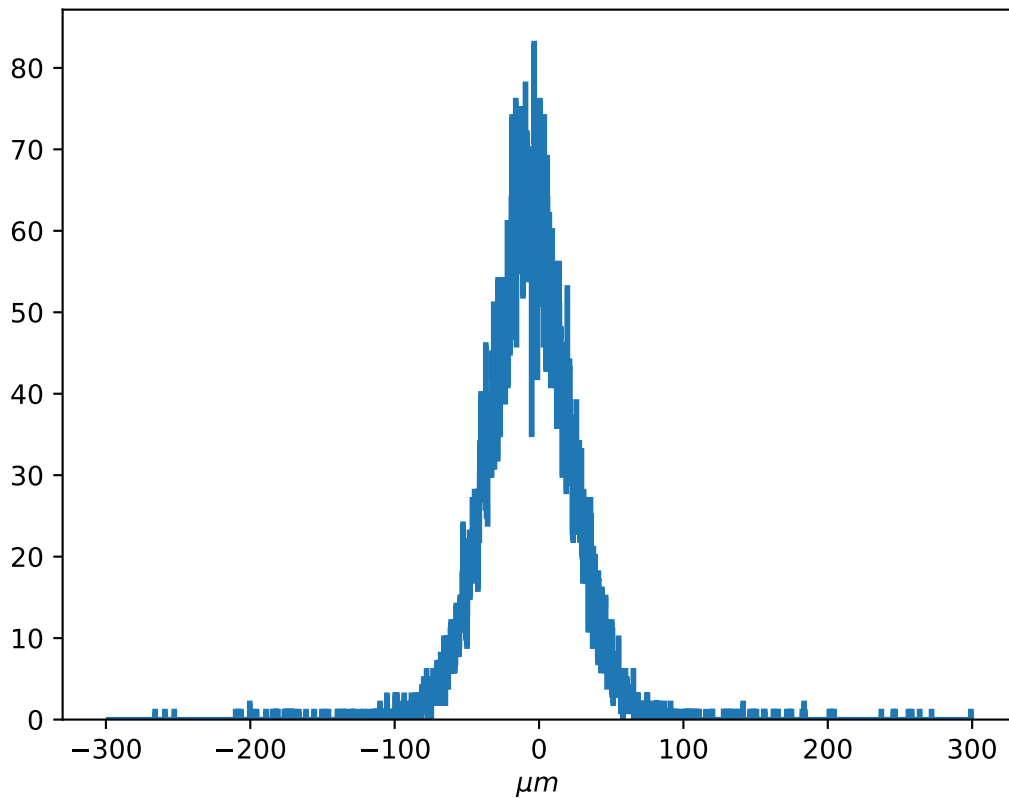residuals in y for clustersize = 3, $\sigma = 46.43$

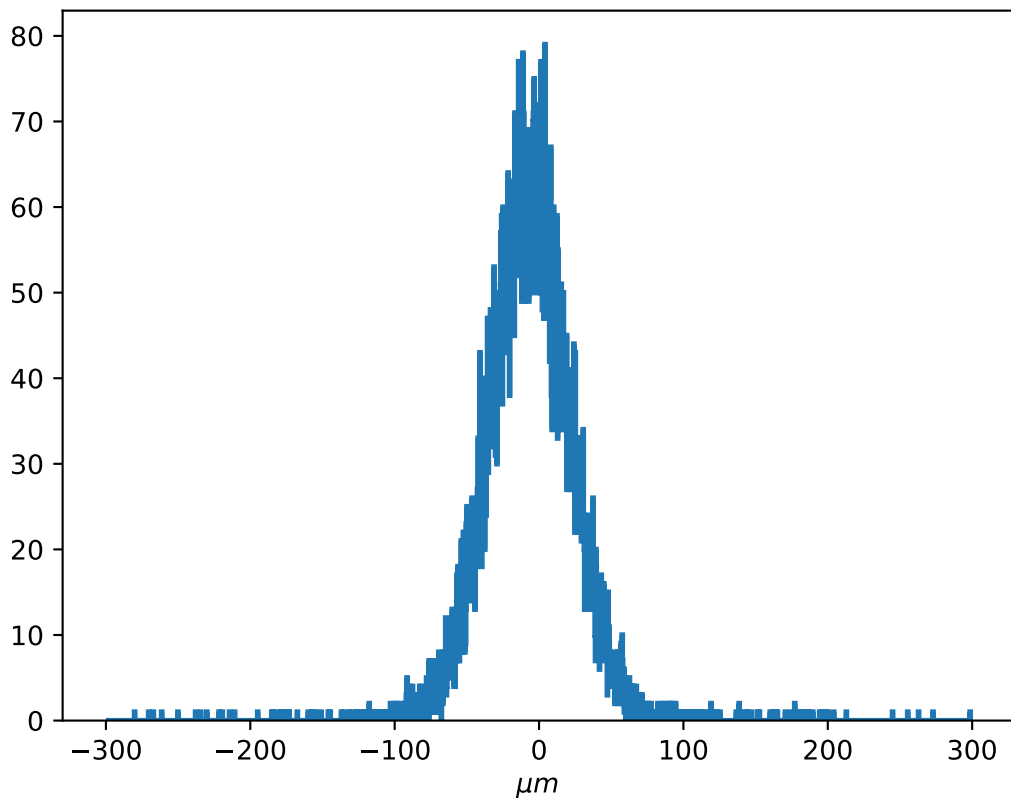residuals in y for clustersize = 4, $\sigma = 34.79$
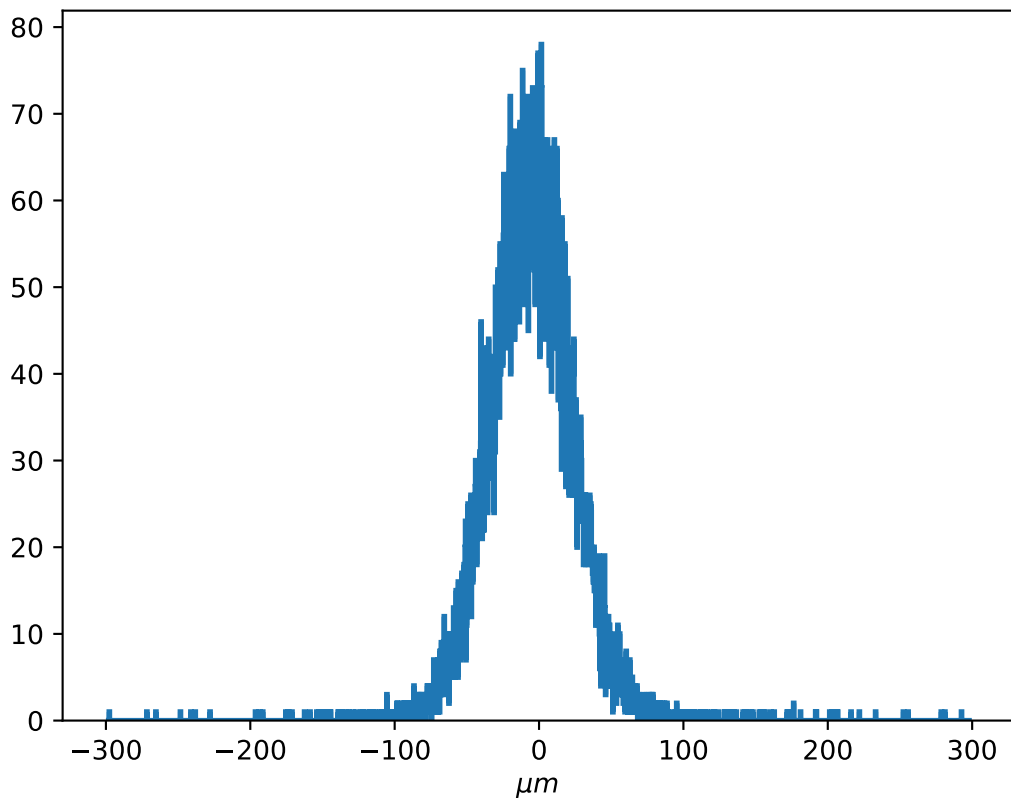
residuals in y for clustersize = 5, $\sigma = 33.91$

residuals in y for clustersize = 6, $\sigma = 41.55$

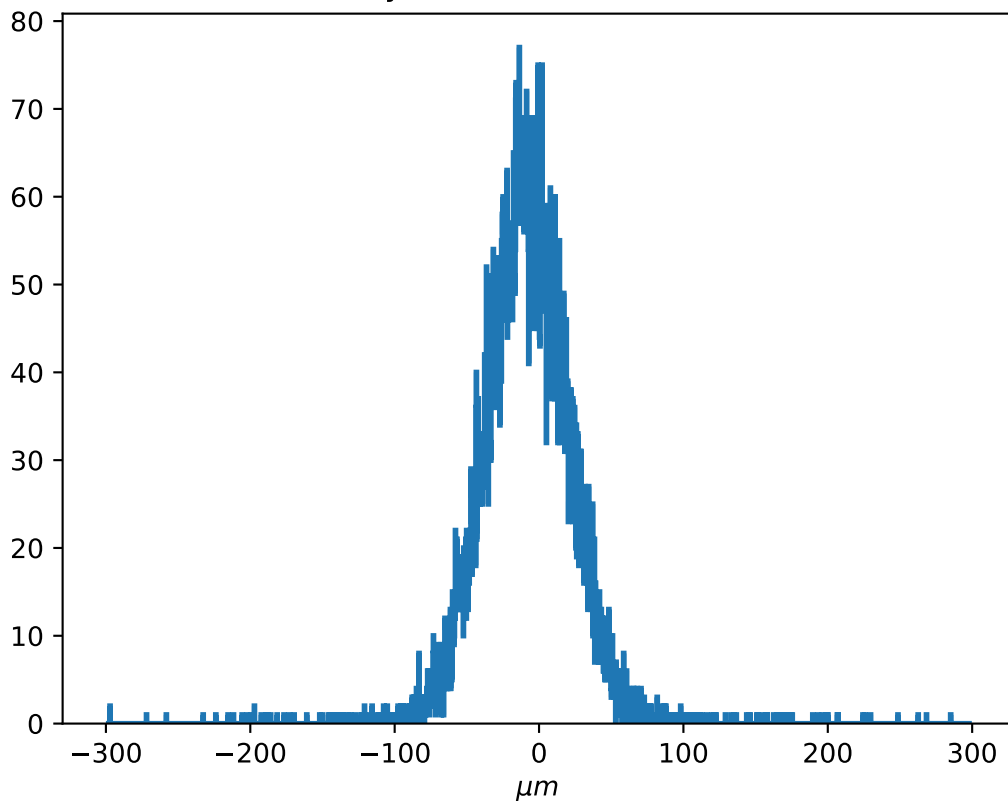residuals in y for clustersize = 7, $\sigma$ = 35.51

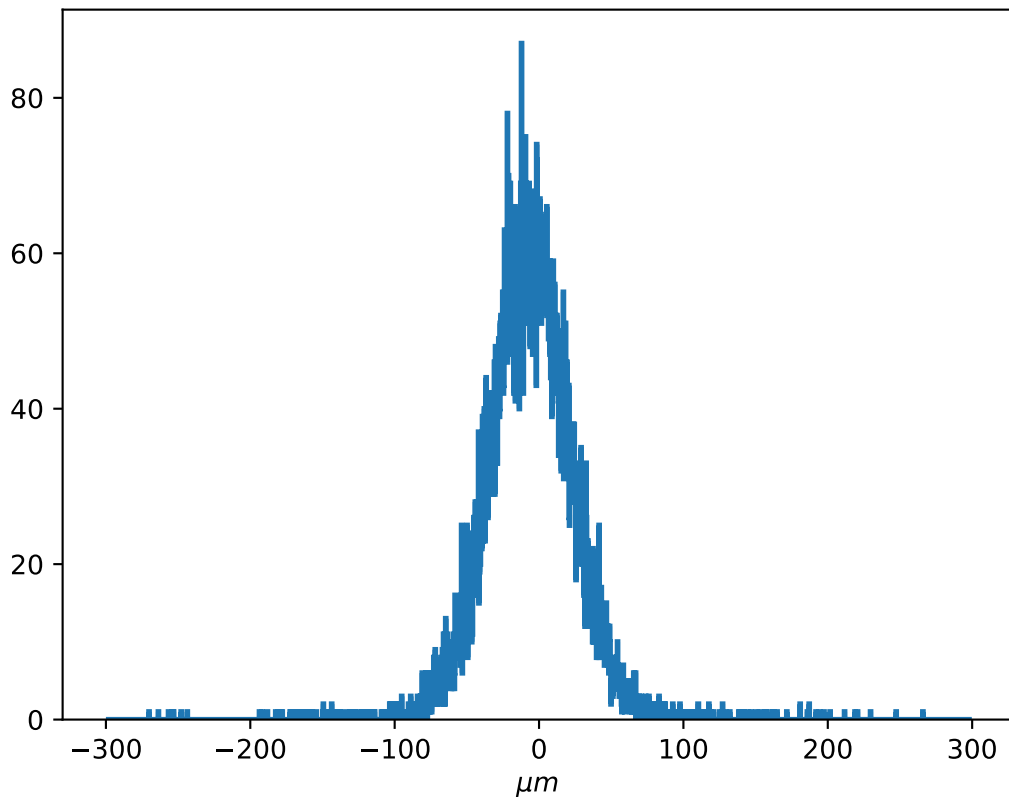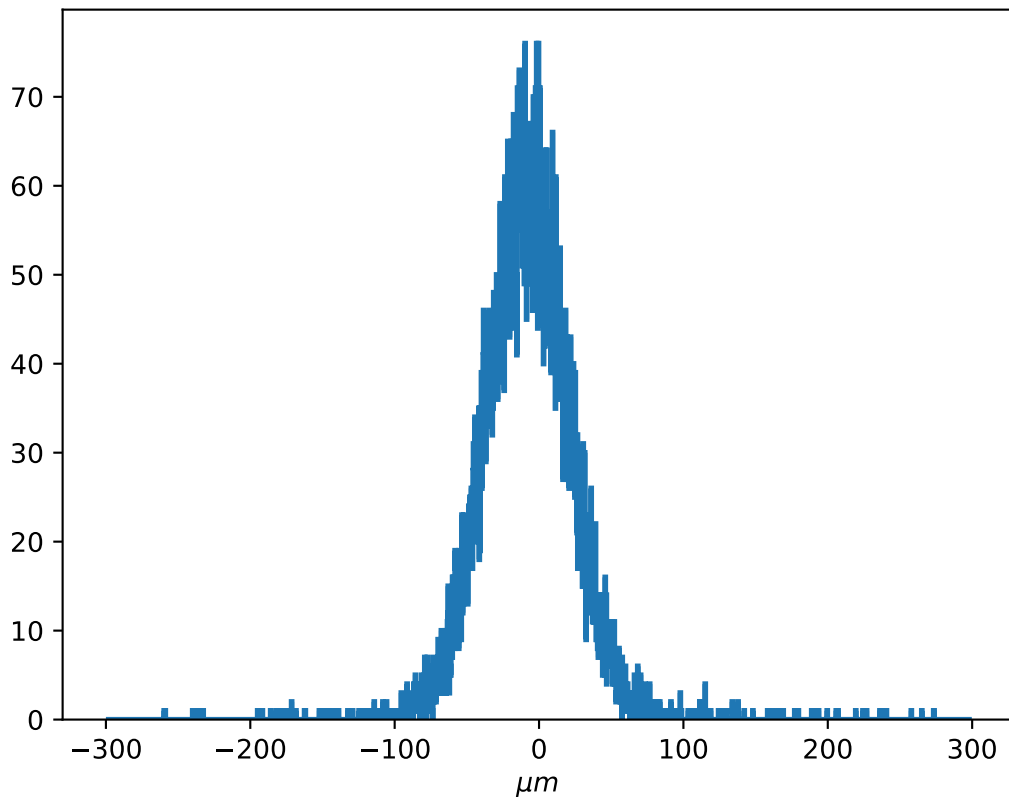residuals in y for clustersize = 8, $\sigma = 35.69$

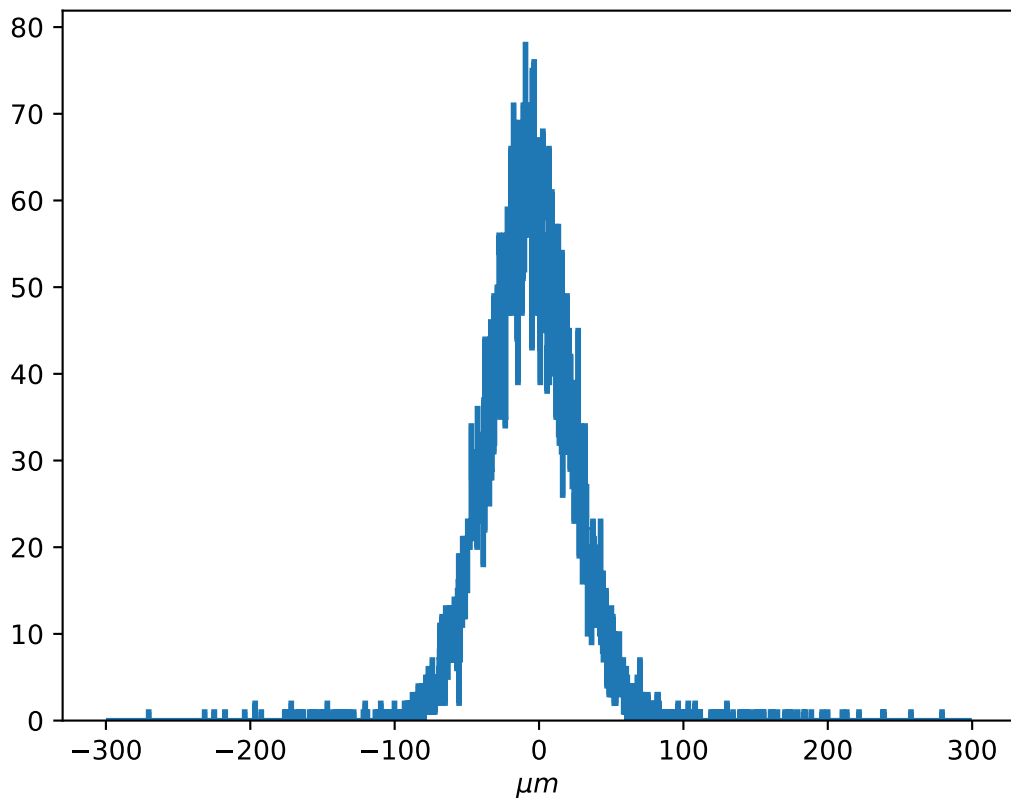residuals in y for clustersize = 9, $\sigma = 35.06$

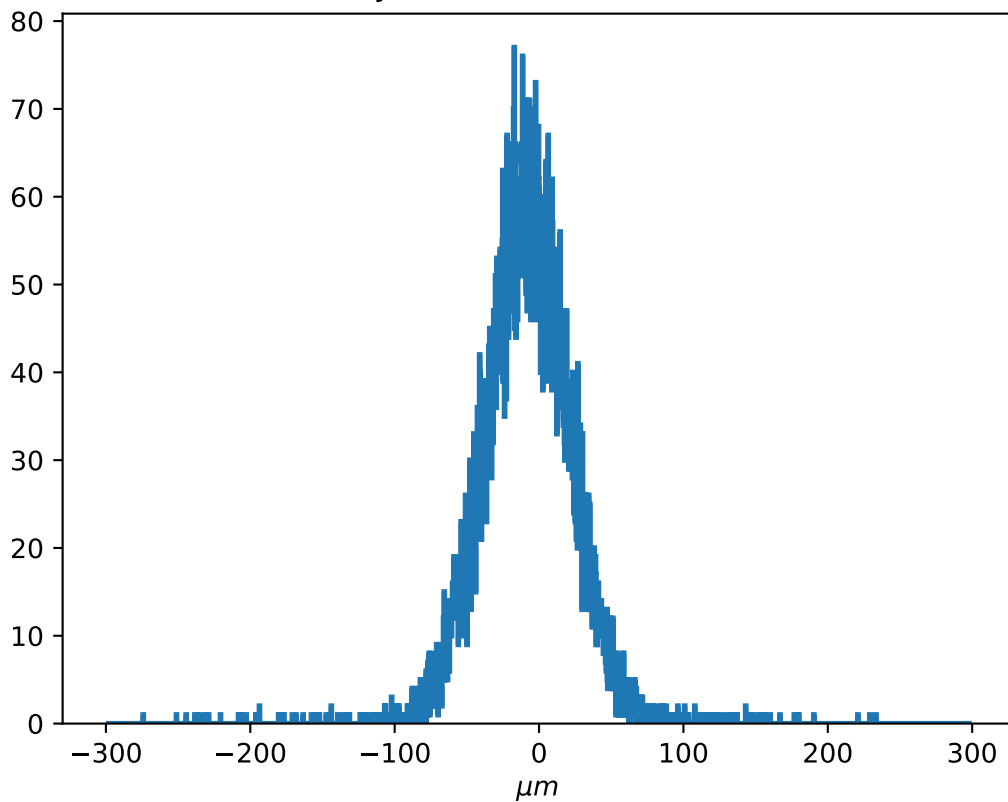residuals in y for clustersize = 10, $\sigma = 33.79$

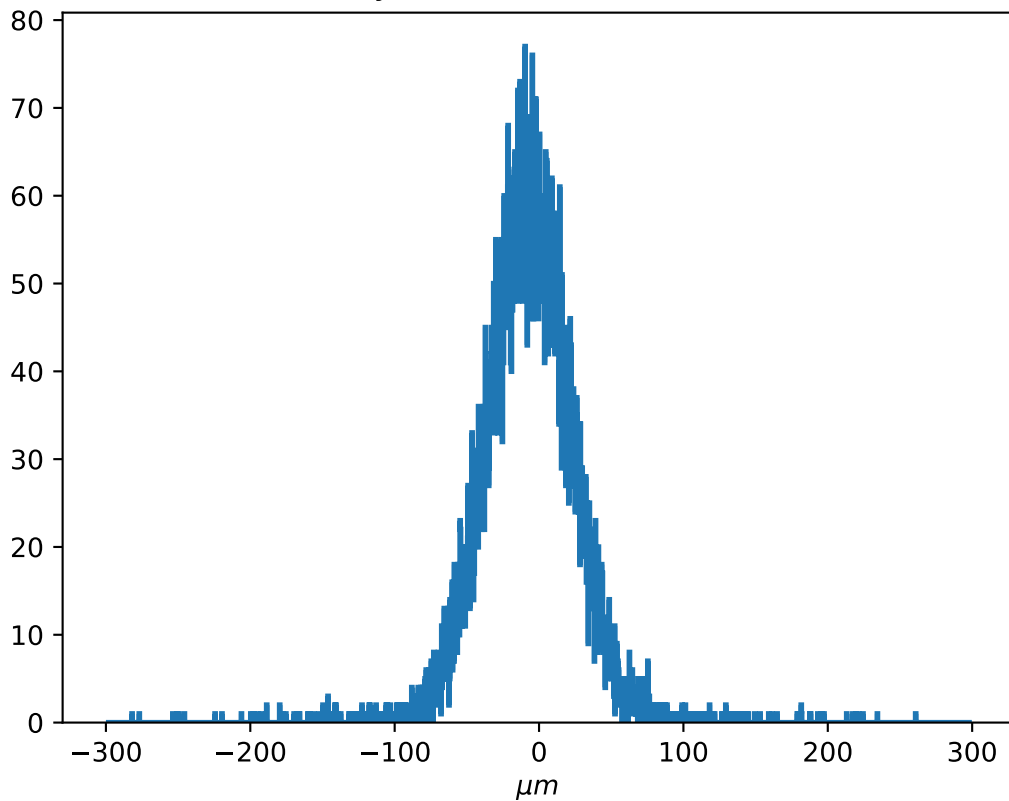residuals in y for clustersize = 11, $\sigma = 33.89$

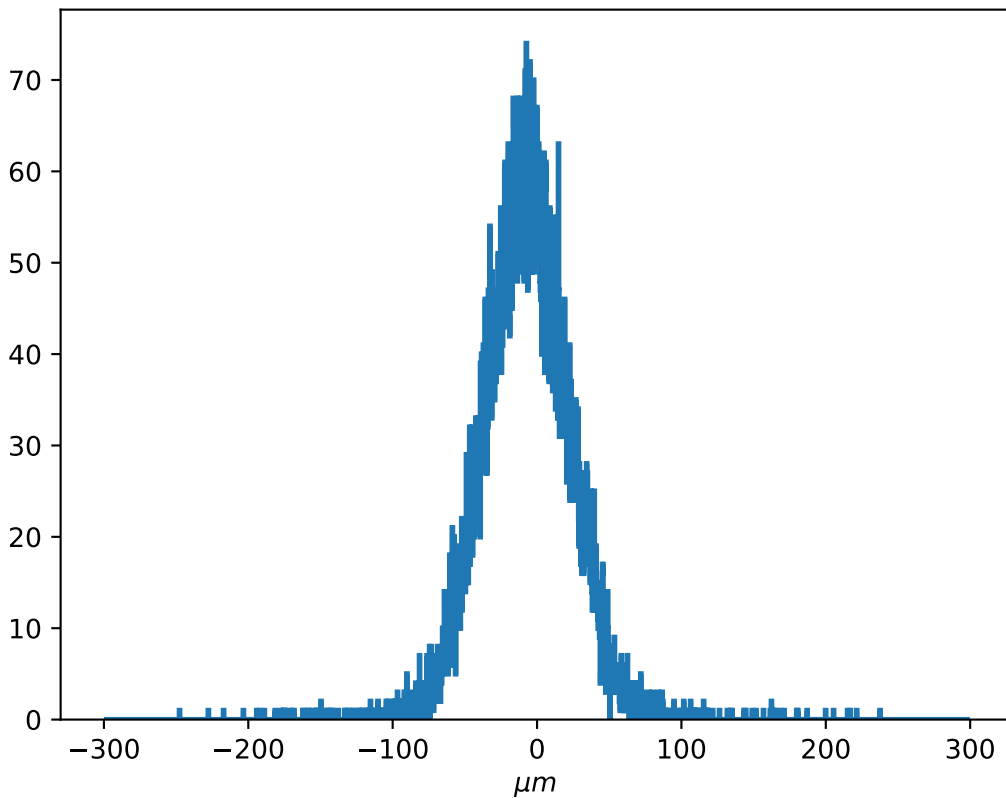residuals in y for clustersize = 12, $\sigma$ = 32.59

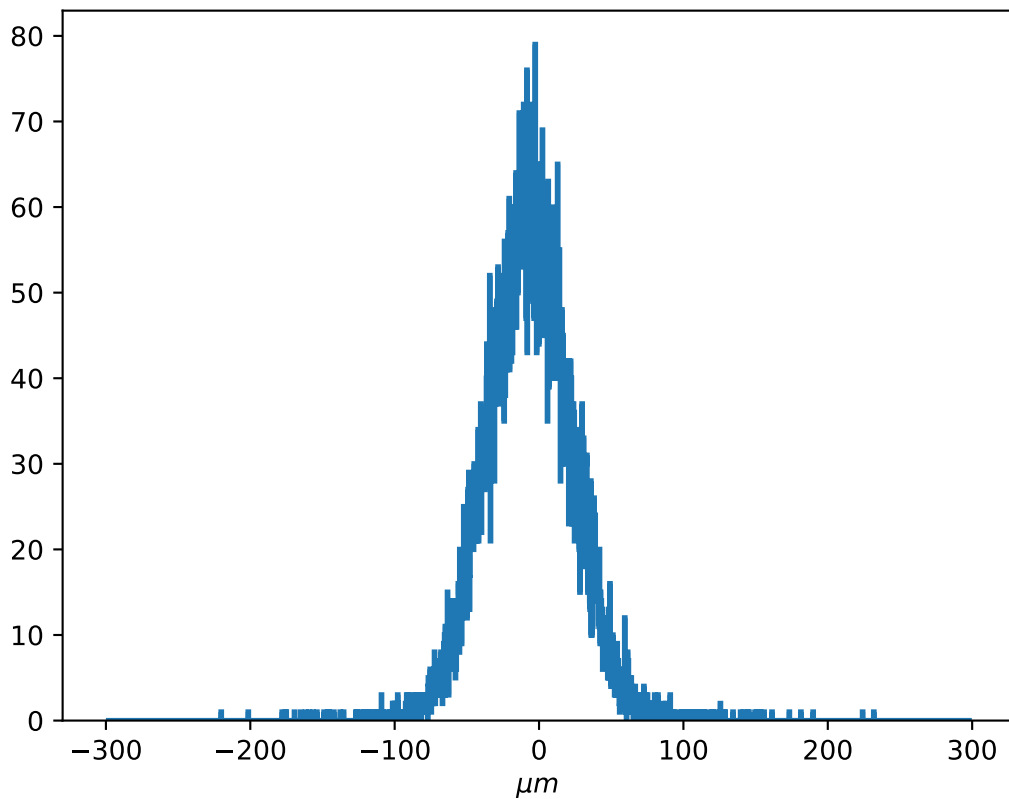residuals in y for clustersize = 13, $\sigma$ = 32.44

residuals in y for clustersize = 14, $\sigma = 32.50$

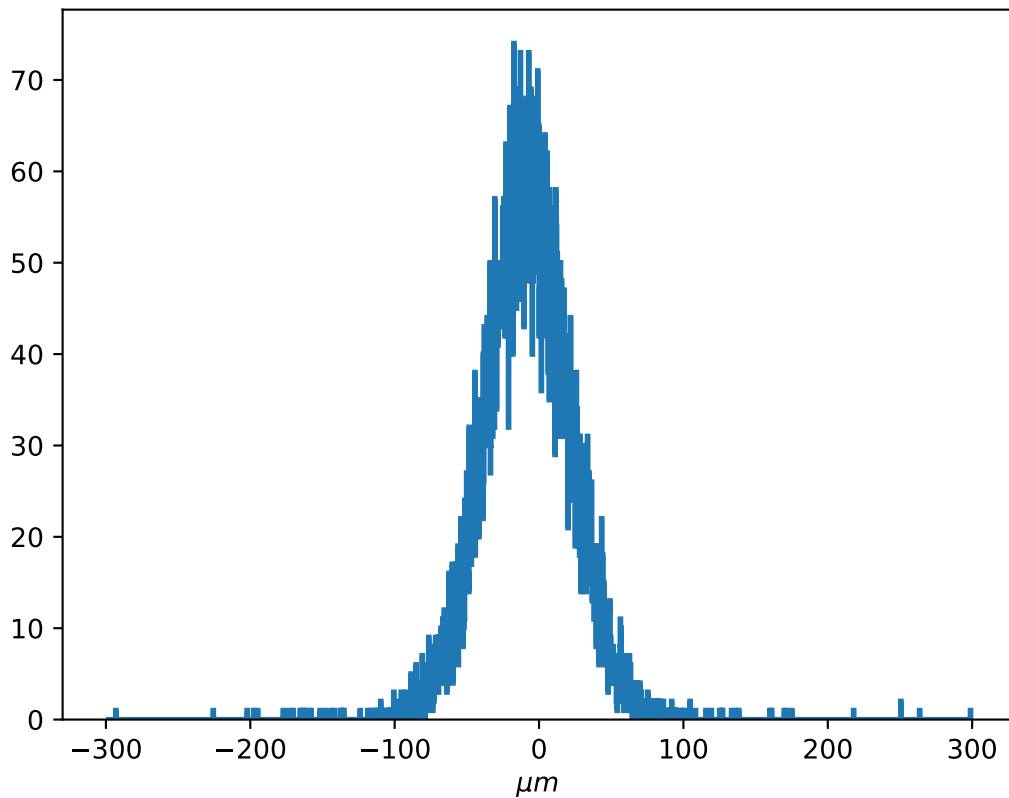residuals in y for clustersize = 15, $\sigma$ = 31.17

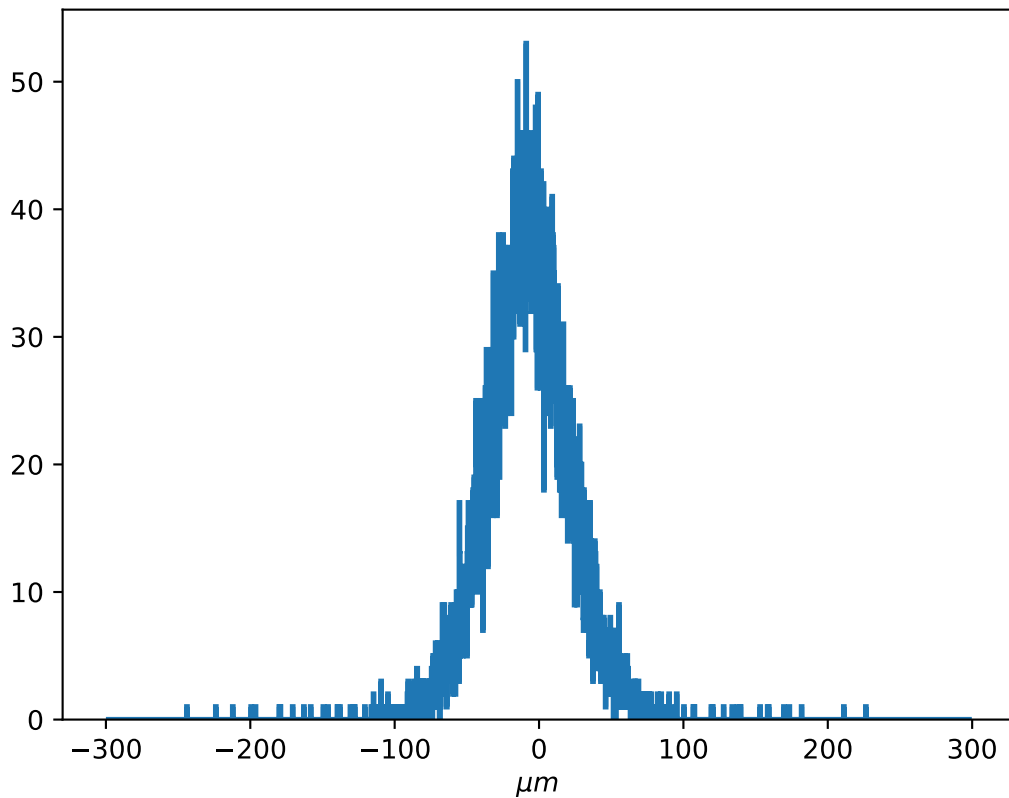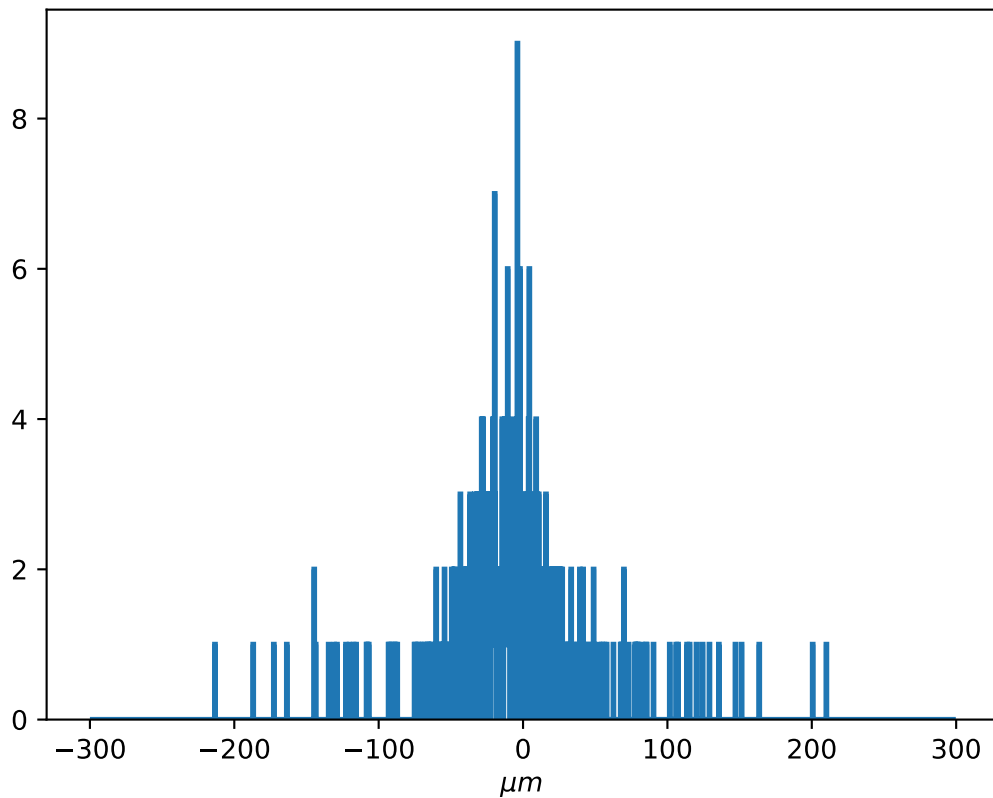residuals in y for clustersize = 16, $\sigma$ = 30.41

residuals in y for clustersize = 17, $\sigma = 30.54$

residuals in y for clustersize = 18, $\sigma$ = 29.79

residuals in y for clustersize = 19, $\sigma = 44.80$

residuals in y for clustersize = 20, $\sigma$ = 49.18