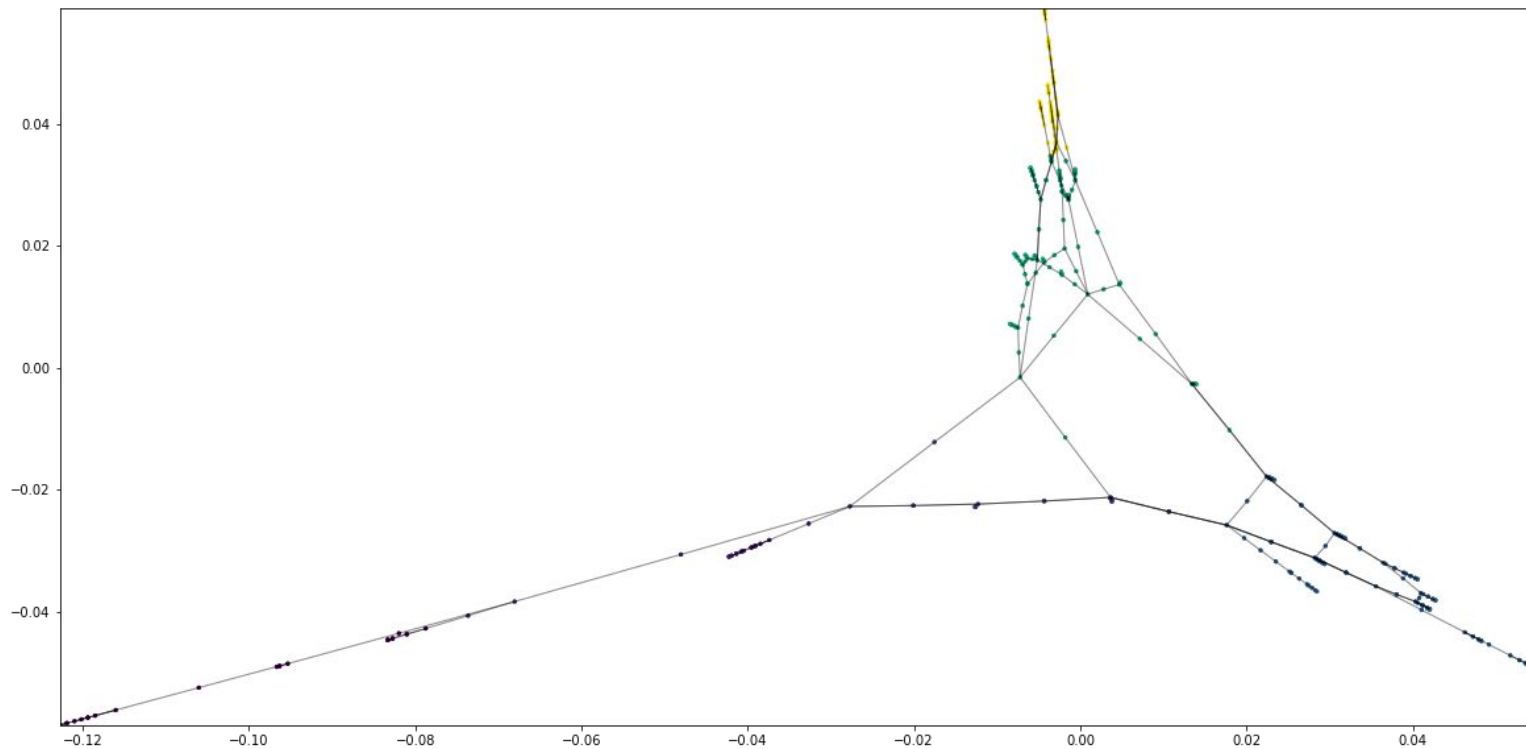
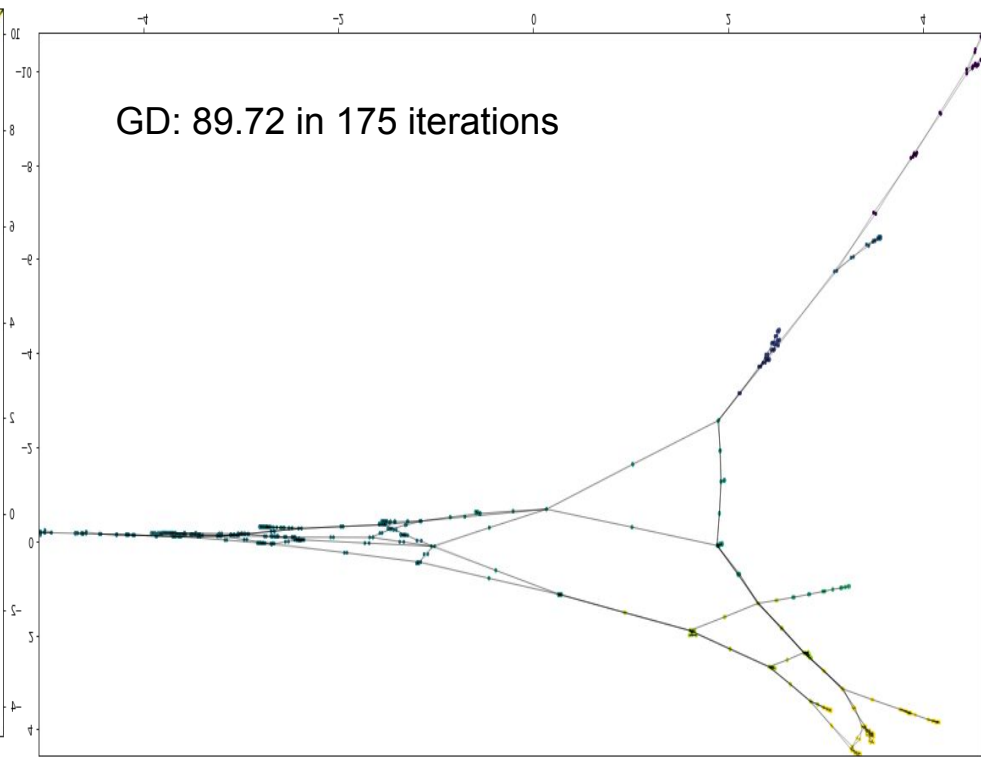
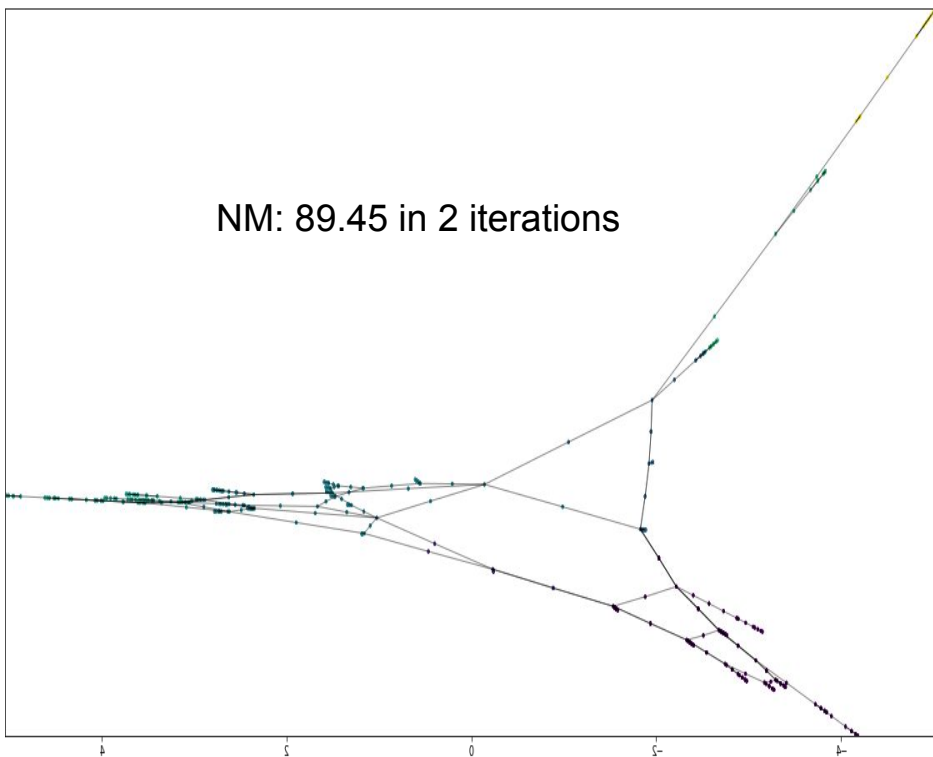


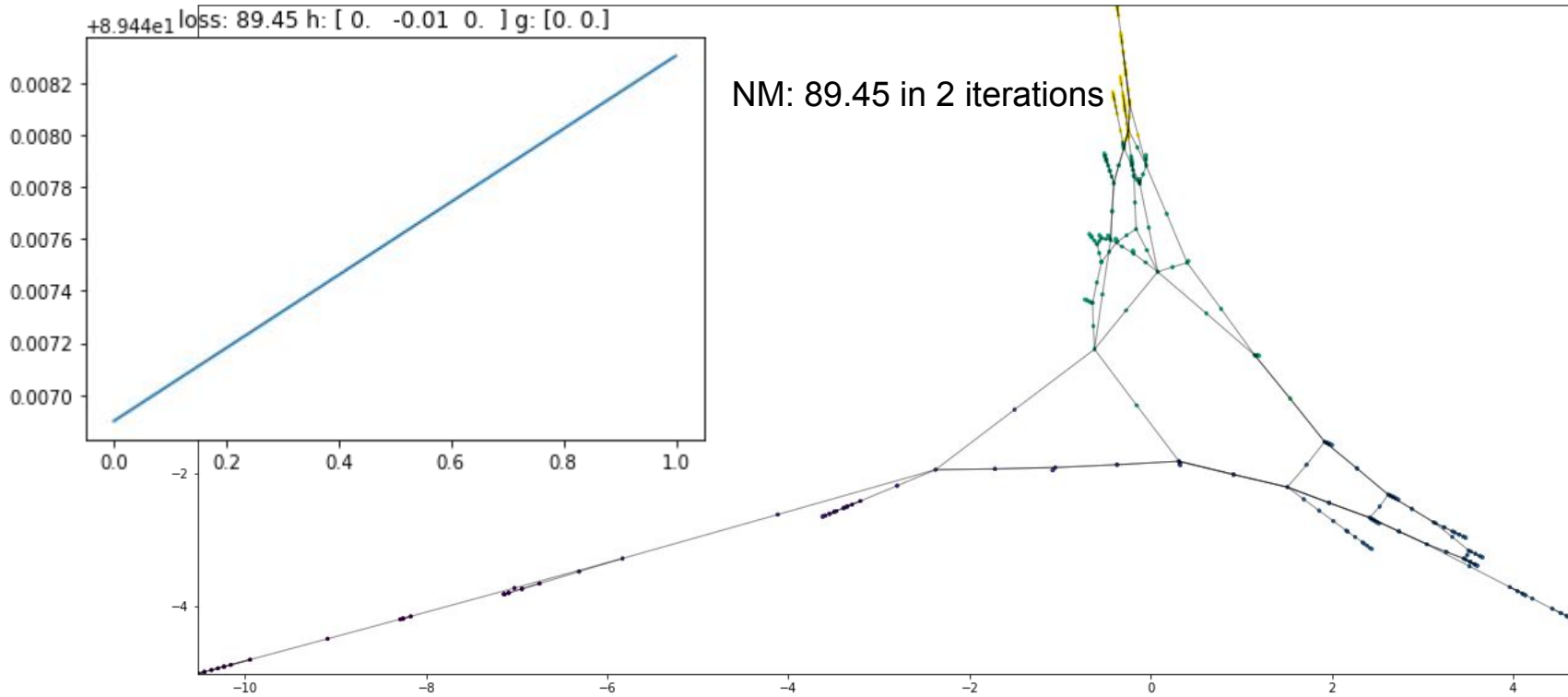
# V1 v2 initialization



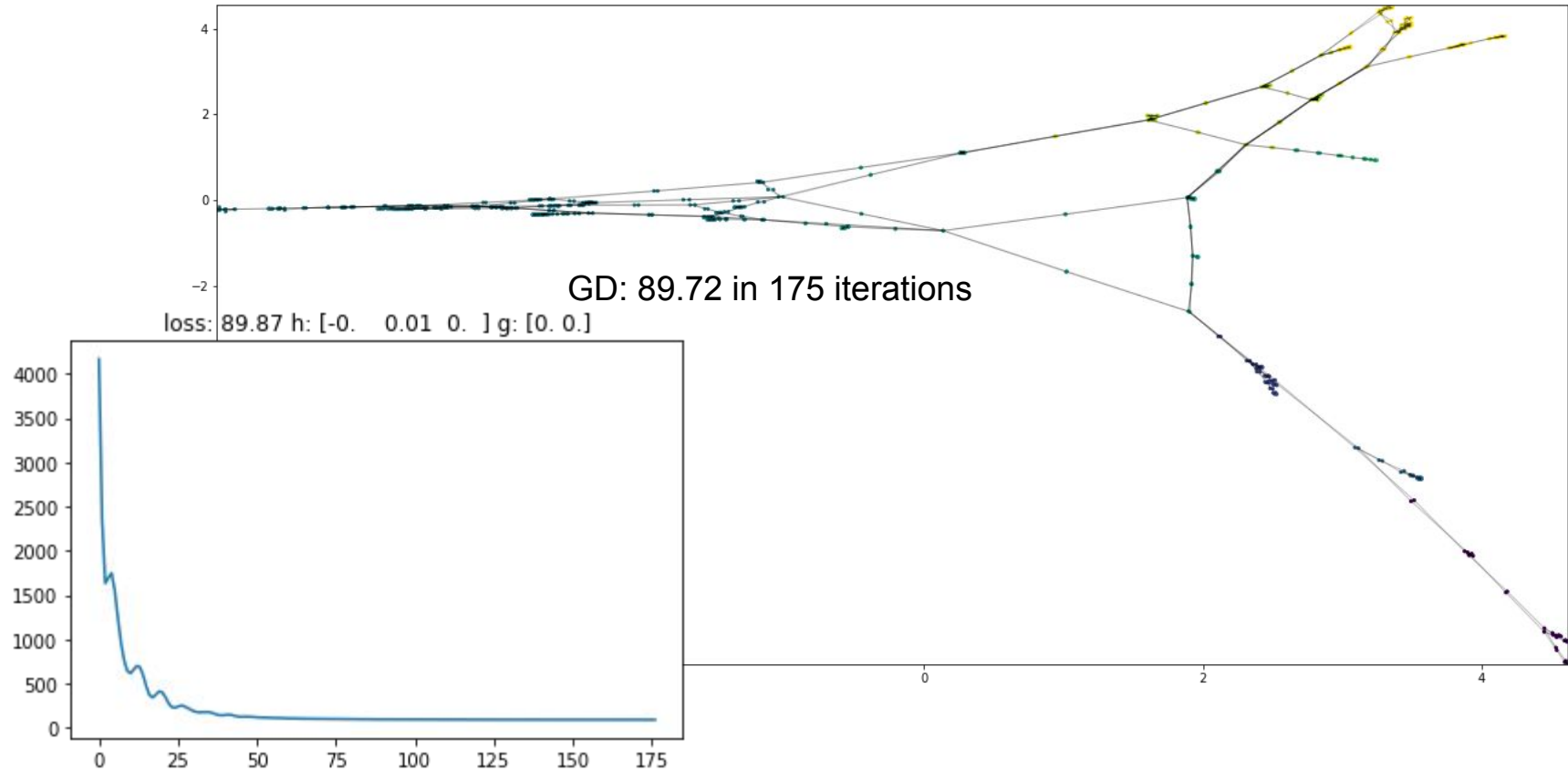
# Top level placement, using $x=v1$ $y=v2$ as initial



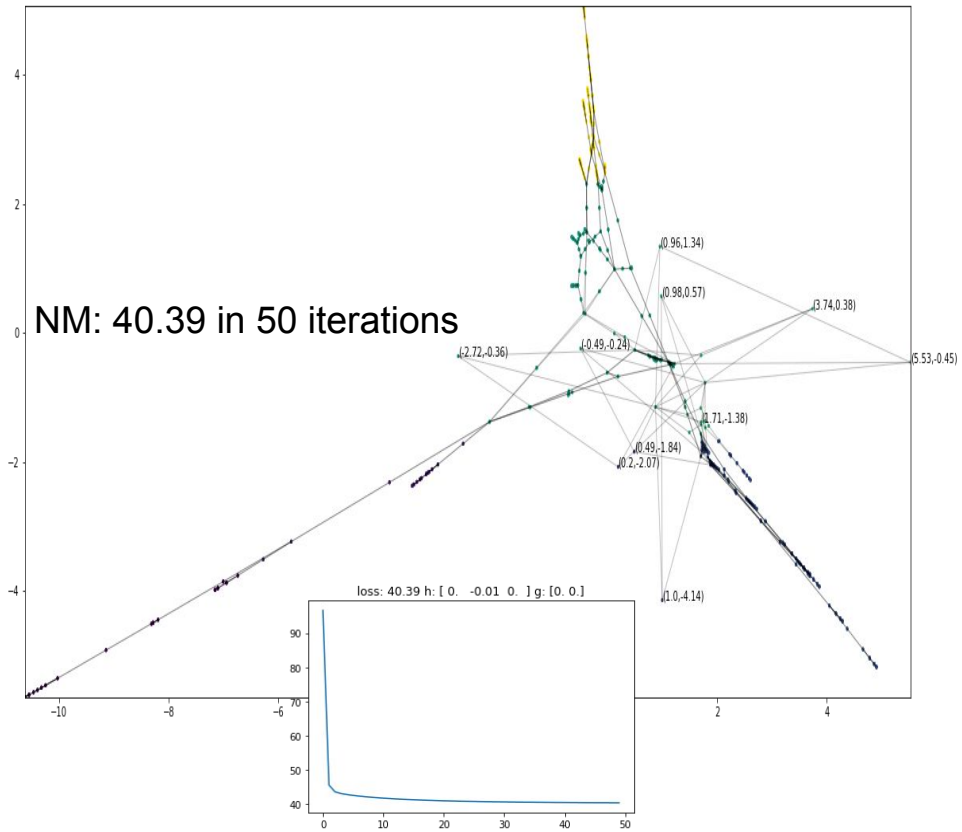
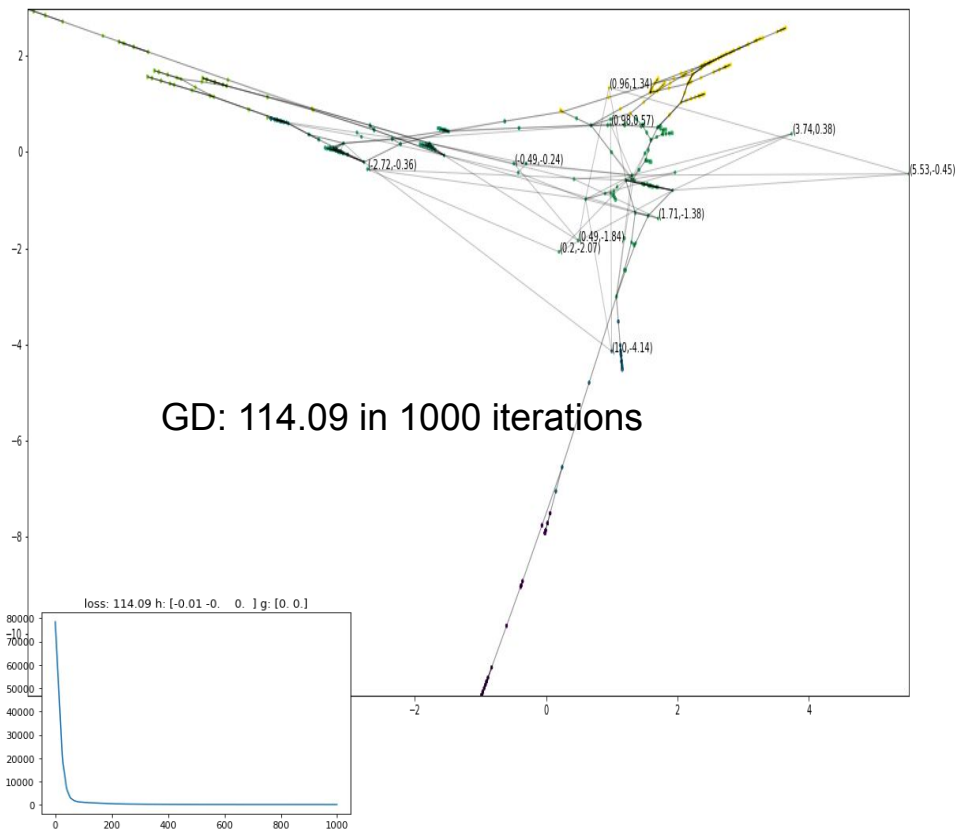
# Top level Newton placement, using $x=v1$ $y=v2$ as initial



# Top level gradient placement, using $x=v1$ $y=v2$ as initial

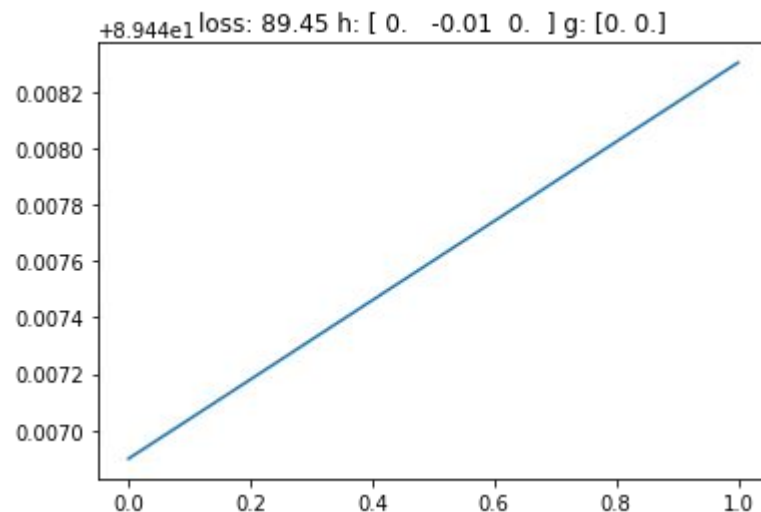
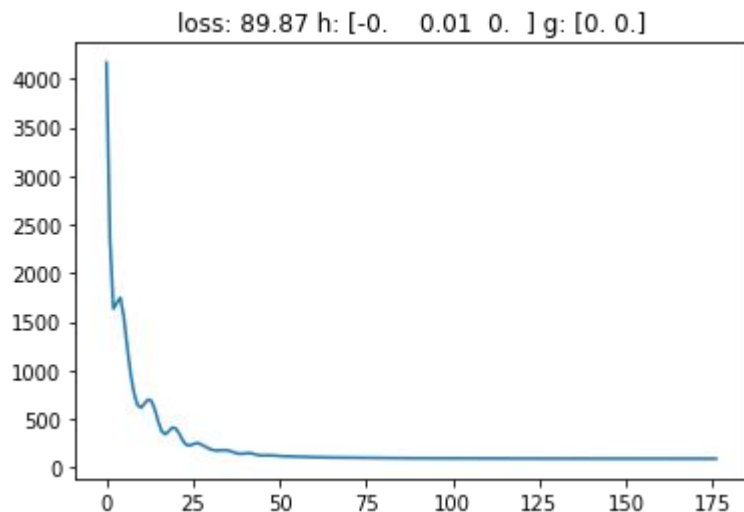


# Placement with fixed nodes (+linear constraints)

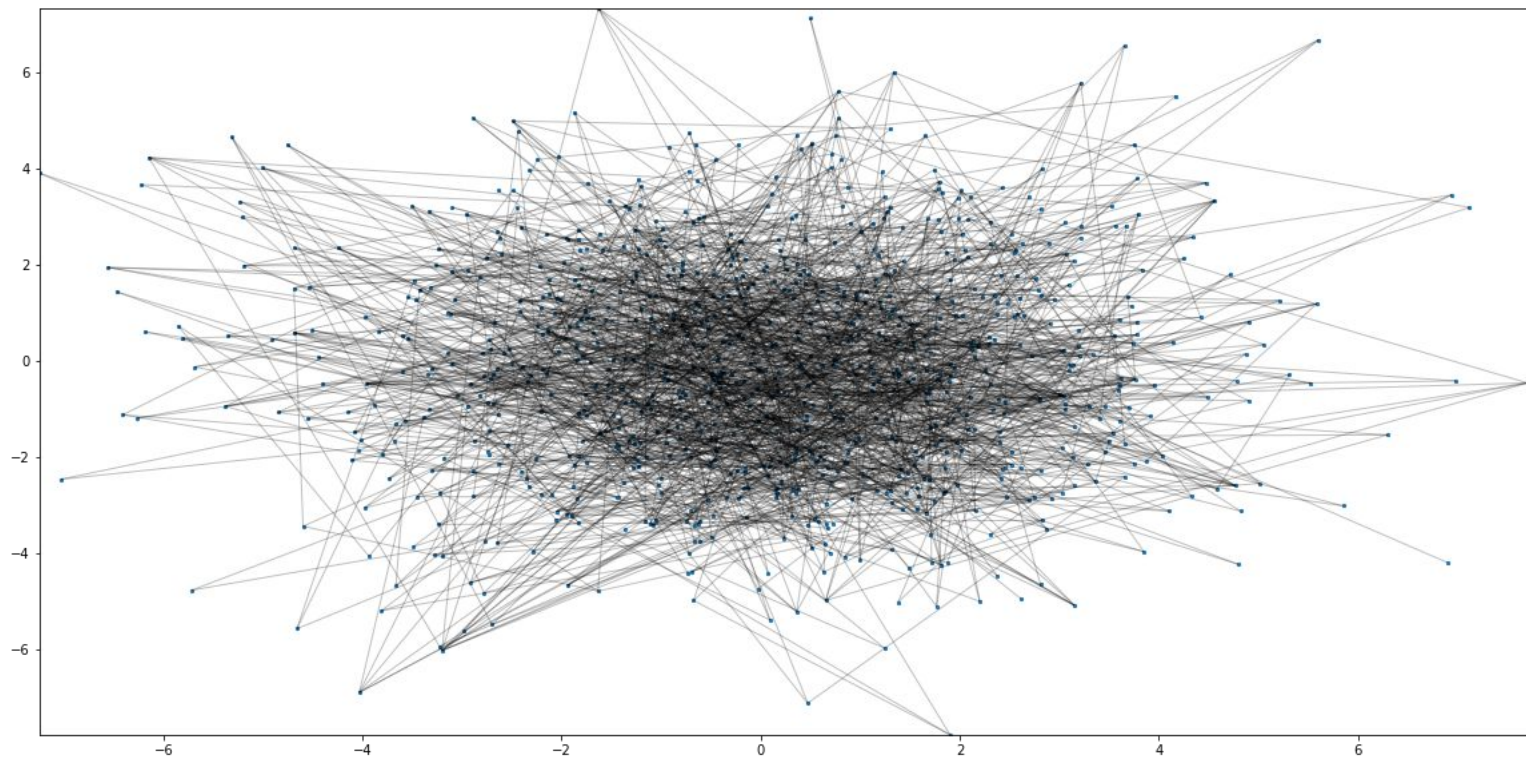


# Convergence of Gradient & Newton Descent under v1, v2 initialization

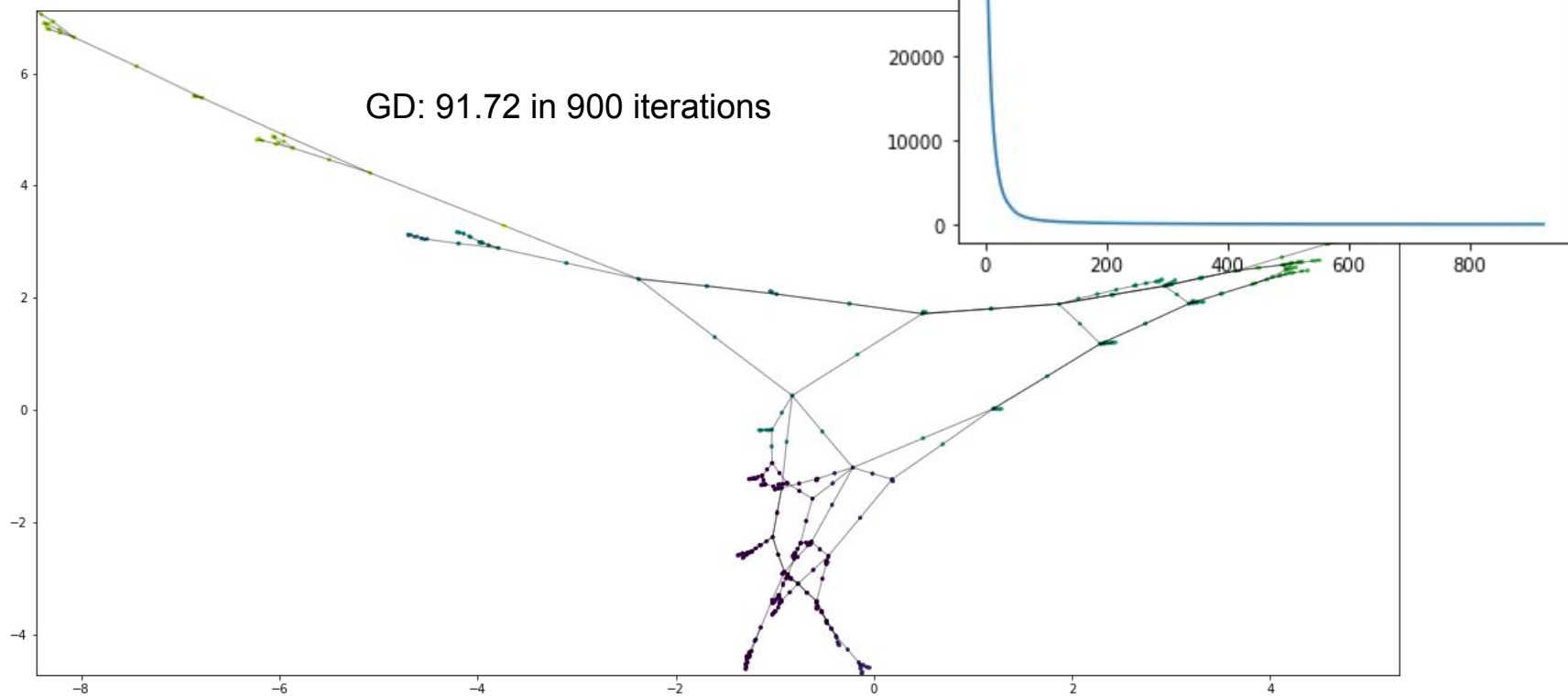
- # iterations to delta cost  $\leq 1e-3$



# Random initialization

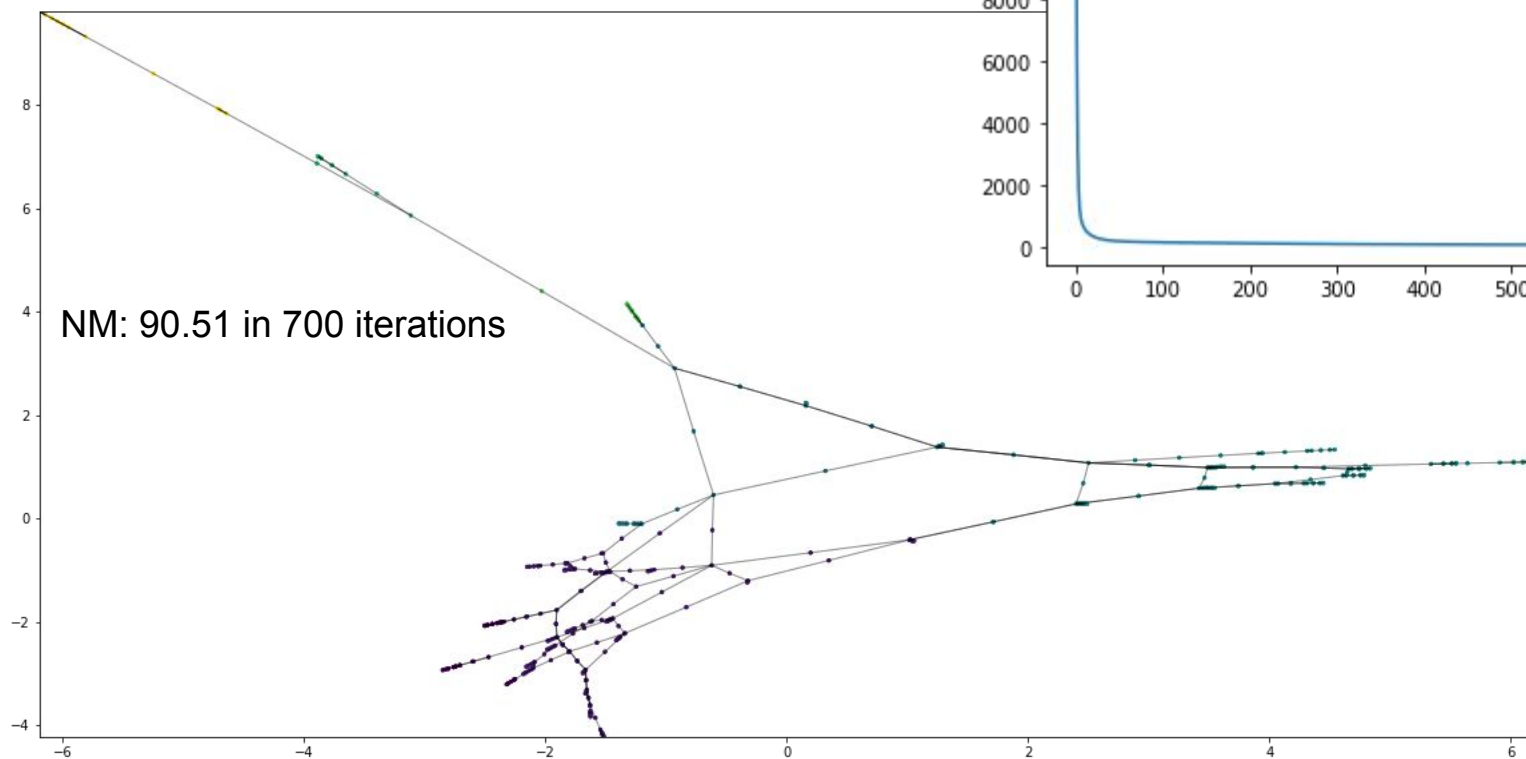


# Sensitivity to initialization GD



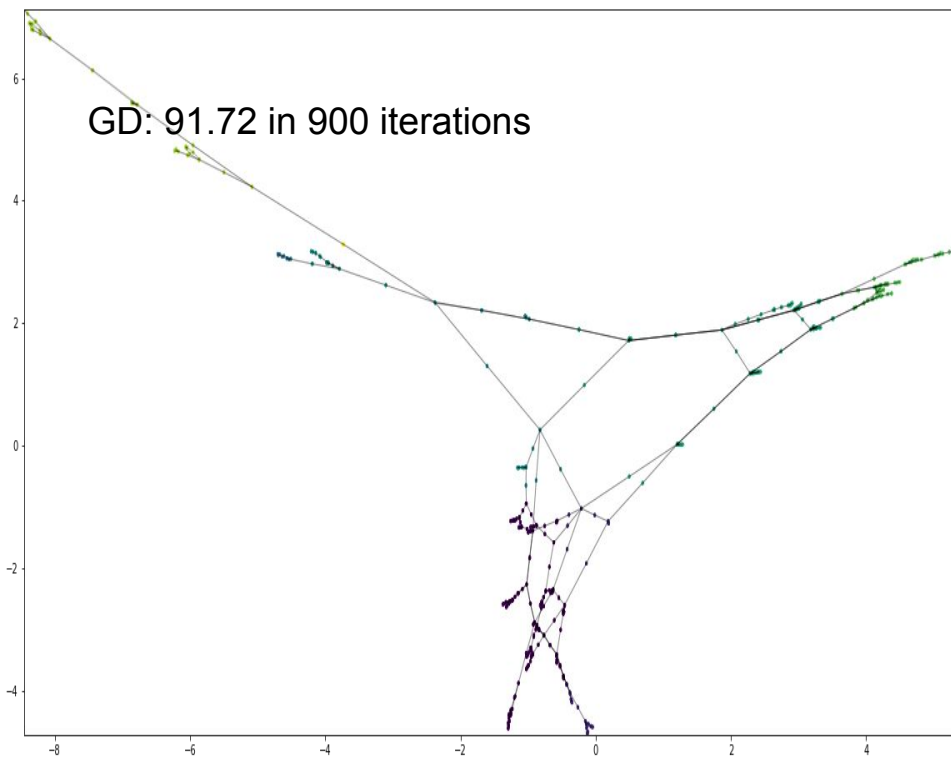
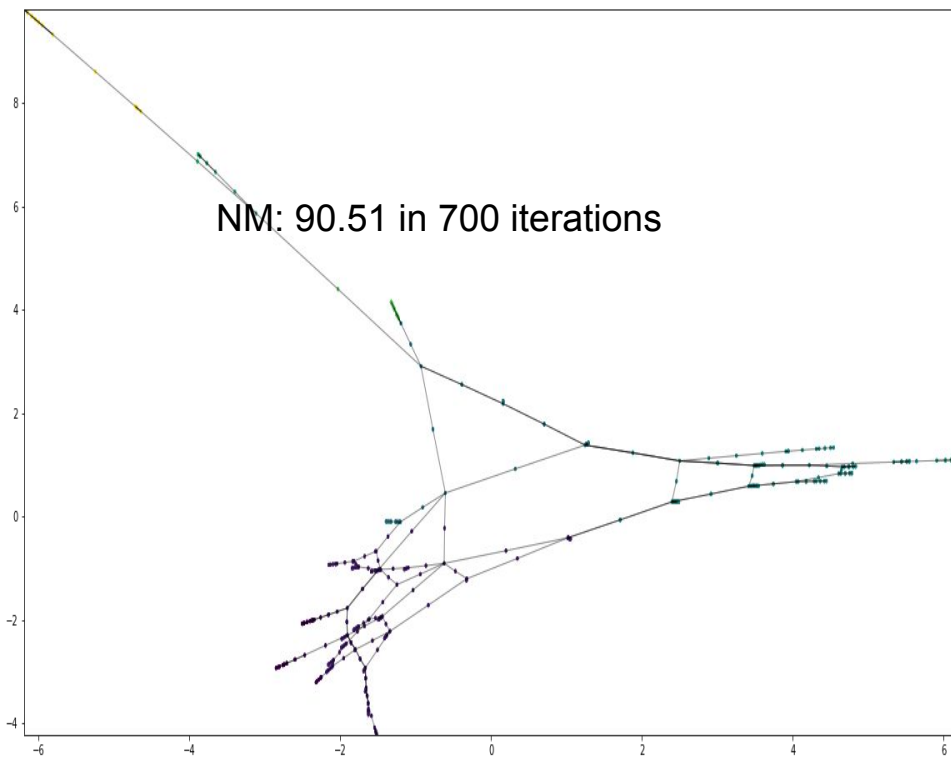


# Sensitivity to initialization NM



loss: 90.51 h: [-0. 0.01 0. ] g: [0. 0.]

# Top level placement



## Initial Descent Directions (top) & Step Size (bottom) of Newton Method

