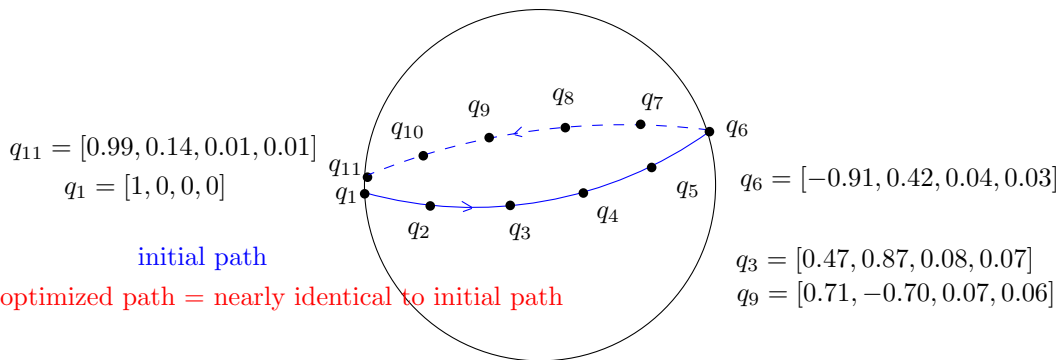
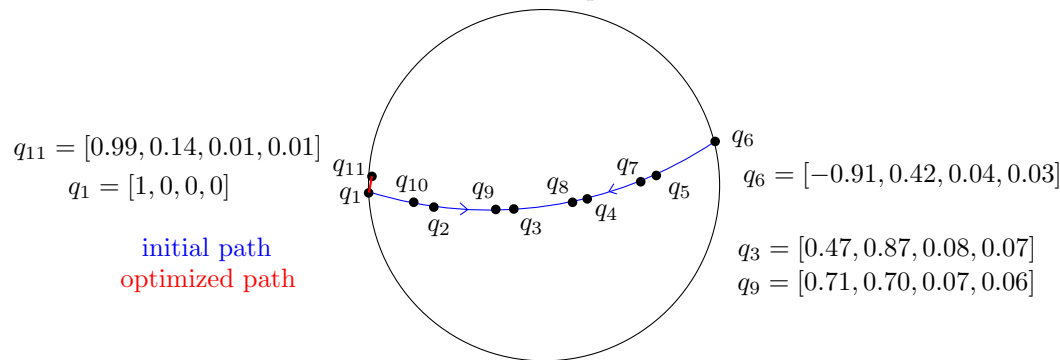


Fails to optimize:



Succeeds to optimize:



Both cases:

$$\mathbf{x}_{optimal} = \mathbf{x}_{init} - H^{-1} \Delta c(\mathbf{x}_{init})$$

with initial gradients:

Success

$$c(\mathbf{x}_{init}) = [0, \dots, 0, \boxed{3.7, 0.3, 0.3}, 0, \dots, 0]$$

for q_6 waypoint

Fail

$$c(\mathbf{x}_{init}) = [0, \dots, 0, \boxed{0.01, 0.3, 0.1}, 0, \dots, 0]$$

for q_6 waypoint

(inverse Hessians are similar)