$x_1 := 4.7 \quad y_1 := 5.09 \quad z_1 := 0.774 \quad x_0 := 0$

$x_2 := 1.579 \quad y_2 := 0.858 \quad z_2 := 0.78 \quad y_0 := 0$

$x_3 := 9 \quad y_3 := 3.476 \quad z_3 := 1.557 \quad z_0 := 0$

$N := 1$

$QA_1 := \begin{pmatrix} x_1 & y_1 & z_1 \end{pmatrix}^T$

$QA_2 := \begin{pmatrix} x_2 & y_2 & z_2 \end{pmatrix}^T$

$QA_3 := \begin{pmatrix} x_3 & y_3 & z_3 \end{pmatrix}^T$

$R_1 := \begin{cases} 3.190 & \text{if } N = 1 \\ 5.45 & \text{if } N = 2 \end{cases}$

$R_2 := \begin{cases} 2.423 & \text{if } N = 1 \\ 9.99 & \text{if } N = 2 \end{cases}$

$R_3 := \begin{cases} 6.232 & \text{if } N = 1 \\ 2.473 & \text{if } N = 2 \end{cases}$

$Q_0 := \begin{pmatrix} x_0 & y_0 & z_0 \end{pmatrix}^T$

$R := \begin{pmatrix} R_1 & R_2 & R_3 \end{pmatrix}^T$

$R_{11}(x,y,z) := \sqrt{(x_1 - x)^2 + (y_1 - y)^2 + (z_1 - z)^2}$

$R_{22}(x,y,z) := \sqrt{(x_2 - x)^2 + (y_2 - y)^2 + (z_2 - z)^2}$

$R_{33}(x,y,z) := \sqrt{(x_3 - x)^2 + (y_3 - y)^2 + (z_3 - z)^2}$

$$f(x,y,z) := \begin{pmatrix} R_{11}(x,y,z) \\ R_{22}(x,y,z) \\ R_{33}(x,y,z) \end{pmatrix}$$

$$H(x,y,z) := \begin{pmatrix} \frac{d}{dx}R_{11}(x,y,z) & \frac{d}{dy}R_{11}(x,y,z) & \frac{d}{dz}R_{11}(x,y,z) \\ \frac{d}{dx}R_{22}(x,y,z) & \frac{d}{dy}R_{22}(x,y,z) & \frac{d}{dz}R_{22}(x,y,z) \\ \frac{d}{dx}R_{33}(x,y,z) & \frac{d}{dy}R_{33}(x,y,z) & \frac{d}{dz}R_{33}(x,y,z) \end{pmatrix}$$

$$Q_0 = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$$

$$Q_1 := Q_0 + \left(H\left(Q0_0, Q0_1, Q0_2\right)^T \cdot H\left(Q0_0, Q0_1, Q0_2\right)\right)^{-1} \cdot H\left(Q0_0, Q0_1, Q0_2\right)^T \cdot \left(R - f\left(Q0_0, Q0_1, Q0_2\right)\right) = \begin{pmatrix} 5.518 \\ 2.353 \\ -14.923 \end{pmatrix}$$

$$Q_2 := Q_1 + \left(H\left(Q1_0, Q1_1, Q1_2\right)^T \cdot H\left(Q1_0, Q1_1, Q1_2\right)\right)^{-1} \cdot H\left(Q1_0, Q1_1, Q1_2\right)^T \cdot \left(R - f\left(Q1_0, Q1_1, Q1_2\right)\right) = \begin{pmatrix} -2.085 \\ 2.949 \\ -2.449 \end{pmatrix}$$

$$Q_3 := Q_2 + \left(H\left(Q_{2_0}, Q_{2_1}, Q_{2_2}\right)^T \cdot H\left(Q_{2_0}, Q_{2_1}, Q_{2_2}\right)\right)^{-1} \cdot H\left(Q_{2_0}, Q_{2_1}, Q_{2_2}\right)^T \cdot \left(R - f\left(Q_{2_0}, Q_{2_1}, Q_{2_2}\right)\right) = \begin{pmatrix} 5.314 \\ 2.388 \\ -6.455 \end{pmatrix}$$

$$Q_4 := Q_3 + \left(H\left(Q_{3_0}, Q_{3_1}, Q_{3_2}\right)^T \cdot H\left(Q_{3_0}, Q_{3_1}, Q_{3_2}\right)\right)^{-1} \cdot H\left(Q_{3_0}, Q_{3_1}, Q_{3_2}\right)^T \cdot \left(R - f\left(Q_{3_0}, Q_{3_1}, Q_{3_2}\right)\right) = \begin{pmatrix} 1.596 \\ 1.989 \\ -1.747 \end{pmatrix}$$

$$Q_5 := Q_4 + \left(H\left(Q_{4_0}, Q_{4_1}, Q_{4_2}\right)^T \cdot H\left(Q_{4_0}, Q_{4_1}, Q_{4_2}\right)\right)^{-1} \cdot H\left(Q_{4_0}, Q_{4_1}, Q_{4_2}\right)^T \cdot \left(R - f\left(Q_{4_0}, Q_{4_1}, Q_{4_2}\right)\right) = \begin{pmatrix} 3.383 \\ 2.683 \\ -1.046 \end{pmatrix}$$

$$Q_6 := Q_5 + \left(H\left(Q_{5_0}, Q_{5_1}, Q_{5_2}\right)^T \cdot H\left(Q_{5_0}, Q_{5_1}, Q_{5_2}\right)\right)^{-1} \cdot H\left(Q_{5_0}, Q_{5_1}, Q_{5_2}\right)^T \cdot \left(R - f\left(Q_{5_0}, Q_{5_1}, Q_{5_2}\right)\right) = \begin{pmatrix} 3.094 \\ 2.436 \\ -0.325 \end{pmatrix}$$

$$Q_7 := Q_6 + \left(H\left(Q_{6_0}, Q_{6_1}, Q_{6_2}\right)^T \cdot H\left(Q_{6_0}, Q_{6_1}, Q_{6_2}\right)\right)^{-1} \cdot H\left(Q_{6_0}, Q_{6_1}, Q_{6_2}\right)^T \cdot \left(R - f\left(Q_{6_0}, Q_{6_1}, Q_{6_2}\right)\right) = \begin{pmatrix} 3.091 \\ 2.501 \\ -0.175 \end{pmatrix}$$

$$Q_8 := Q_7 + \left(H\left(Q_{7_0}, Q_{7_1}, Q_{7_2}\right)^T \cdot H\left(Q_{7_0}, Q_{7_1}, Q_{7_2}\right)\right)^{-1} \cdot H\left(Q_{7_0}, Q_{7_1}, Q_{7_2}\right)^T \cdot \left(R - f\left(Q_{7_0}, Q_{7_1}, Q_{7_2}\right)\right) = \begin{pmatrix} 3.09 \\ 2.5 \\ -0.163 \end{pmatrix}$$

$$Q_9 := Q_8 + \left(H\left(Q_{8_0}, Q_{8_1}, Q_{8_2}\right)^T \cdot H\left(Q_{8_0}, Q_{8_1}, Q_{8_2}\right)\right)^{-1} \cdot H\left(Q_{8_0}, Q_{8_1}, Q_{8_2}\right)^T \cdot \left(R - f\left(Q_{8_0}, Q_{8_1}, Q_{8_2}\right)\right) = \begin{pmatrix} 3.09 \\ 2.5 \\ -0.163 \end{pmatrix}$$

$$Q_{10} := Q_9 + \left(H\left(Q_{9_0}, Q_{9_1}, Q_{9_2}\right)^T \cdot H\left(Q_{9_0}, Q_{9_1}, Q_{9_2}\right)\right)^{-1} \cdot H\left(Q_{9_0}, Q_{9_1}, Q_{9_2}\right)^T \cdot \left(R - f\left(Q_{9_0}, Q_{9_1}, Q_{9_2}\right)\right) = \begin{pmatrix} 3.09 \\ 2.5 \\ -0.163 \end{pmatrix}$$

$$Q_{11} := Q_{10} + \left(H\left(Q_{10_0}, Q_{10_1}, Q_{10_2}\right)^T \cdot H\left(Q_{10_0}, Q_{10_1}, Q_{10_2}\right)\right)^{-1} \cdot H\left(Q_{10_0}, Q_{10_1}, Q_{10_2}\right)^T \cdot \left(R - f\left(Q_{10_0}, Q_{10_1}, Q_{10_2}\right)\right) = \begin{pmatrix} 3.09 \\ 2.5 \\ -0.163 \end{pmatrix}$$

$$Q_{12} := Q_{11} + \left(H\left(Q_{11_0}, Q_{11_1}, Q_{11_2}\right)^T \cdot H\left(Q_{11_0}, Q_{11_1}, Q_{11_2}\right)\right)^{-1} \cdot H\left(Q_{11_0}, Q_{11_1}, Q_{11_2}\right)^T \cdot \left(R - f\left(Q_{11_0}, Q_{11_1}, Q_{11_2}\right)\right) = \begin{pmatrix} 3.09 \\ 2.5 \\ -0.163 \end{pmatrix}$$

$$Q_{13} := Q_{12} + \left(H\left(Q_{12_0}, Q_{12_1}, Q_{12_2}\right)^T \cdot H\left(Q_{12_0}, Q_{12_1}, Q_{12_2}\right)\right)^{-1} \cdot H\left(Q_{12_0}, Q_{12_1}, Q_{12_2}\right)^T \cdot \left(R - f\left(Q_{12_0}, Q_{12_1}, Q_{12_2}\right)\right) = \begin{pmatrix} 3.09 \\ 2.5 \\ -0.163 \end{pmatrix}$$

$$Q_{14} := Q_{13} + \left(H\left(Q_{13_0}, Q_{13_1}, Q_{13_2}\right)^T \cdot H\left(Q_{13_0}, Q_{13_1}, Q_{13_2}\right)\right)^{-1} \cdot H\left(Q_{13_0}, Q_{13_1}, Q_{13_2}\right)^T \cdot \left(R - f\left(Q_{13_0}, Q_{13_1}, Q_{13_2}\right)\right) = \begin{pmatrix} 3.09 \\ 2.5 \\ -0.163 \end{pmatrix}$$

$$Q_{15} := Q_{14} + \left(H\left(Q_{14_0}, Q_{14_1}, Q_{14_2}\right)^T \cdot H\left(Q_{14_0}, Q_{14_1}, Q_{14_2}\right)\right)^{-1} \cdot H\left(Q_{14_0}, Q_{14_1}, Q_{14_2}\right)^T \cdot \left(R - f\left(Q_{14_0}, Q_{14_1}, Q_{14_2}\right)\right) = \begin{pmatrix} 3.09 \\ 2.5 \\ -0.163 \end{pmatrix}$$

$$Q_{16} := Q_{15} + \left(H\left(Q_{15_0}, Q_{15_1}, Q_{15_2}\right)^T \cdot H\left(Q_{15_0}, Q_{15_1}, Q_{15_2}\right)\right)^{-1} \cdot H\left(Q_{15_0}, Q_{15_1}, Q_{15_2}\right)^T \cdot \left(R - f\left(Q_{15_0}, Q_{15_1}, Q_{15_2}\right)\right) = \begin{pmatrix} 3.09 \\ 2.5 \\ -0.163 \end{pmatrix}$$

$$Q_{17} := Q_{16} + \left(H\left(Q_{16_0}, Q_{16_1}, Q_{16_2}\right)^T \cdot H\left(Q_{16_0}, Q_{16_1}, Q_{16_2}\right)\right)^{-1} \cdot H\left(Q_{16_0}, Q_{16_1}, Q_{16_2}\right)^T \cdot \left(R - f\left(Q_{16_0}, Q_{16_1}, Q_{16_2}\right)\right) = \begin{pmatrix} 3.09 \\ 2.5 \\ -0.163 \end{pmatrix}$$

$$Q_{18} := Q_{17} + \left(H\left(Q_{17_0}, Q_{17_1}, Q_{17_2}\right)^T \cdot H\left(Q_{17_0}, Q_{17_1}, Q_{17_2}\right)\right)^{-1} \cdot H\left(Q_{17_0}, Q_{17_1}, Q_{17_2}\right)^T \cdot \left(R - f\left(Q_{17_0}, Q_{17_1}, Q_{17_2}\right)\right) = \begin{pmatrix} 3.09 \\ 2.5 \\ -0.163 \end{pmatrix}$$

$$Q_{19} := Q_{18} + \left(H\left(Q_{18_0}, Q_{18_1}, Q_{18_2}\right)^T \cdot H\left(Q_{18_0}, Q_{18_1}, Q_{18_2}\right)\right)^{-1} \cdot H\left(Q_{18_0}, Q_{18_1}, Q_{18_2}\right)^T \cdot \left(R - f\left(Q_{18_0}, Q_{18_1}, Q_{18_2}\right)\right) = \begin{pmatrix} 3.09 \\ 2.5 \\ -0.163 \end{pmatrix}$$

$$Q_{20} := Q_{19} + \left(H\left(Q_{19_0}, Q_{19_1}, Q_{19_2}\right)^T \cdot H\left(Q_{19_0}, Q_{19_1}, Q_{19_2}\right)\right)^{-1} \cdot H\left(Q_{19_0}, Q_{19_1}, Q_{19_2}\right)^T \cdot \left(R - f\left(Q_{19_0}, Q_{19_1}, Q_{19_2}\right)\right) = \begin{pmatrix} 3.09 \\ 2.5 \\ -0.163 \end{pmatrix}$$

$$Q_{21} := Q_{20} + \left(H\left(Q_{20_0}, Q_{20_1}, Q_{20_2}\right)^T \cdot H\left(Q_{20_0}, Q_{20_1}, Q_{20_2}\right)\right)^{-1} \cdot H\left(Q_{20_0}, Q_{20_1}, Q_{20_2}\right)^T \cdot \left(R - f\left(Q_{20_0}, Q_{20_1}, Q_{20_2}\right)\right) = \begin{pmatrix} 3.09 \\ 2.5 \\ -0.163 \end{pmatrix}$$

$$Q_{22} := Q_{21} + \left(H\left(Q_{21_0}, Q_{21_1}, Q_{21_2}\right)^T \cdot H\left(Q_{21_0}, Q_{21_1}, Q_{21_2}\right)\right)^{-1} \cdot H\left(Q_{21_0}, Q_{21_1}, Q_{21_2}\right)^T \cdot \left(R - f\left(Q_{21_0}, Q_{21_1}, Q_{21_2}\right)\right) = \begin{pmatrix} 3.09 \\ 2.5 \\ -0.163 \end{pmatrix}$$

$$Q_{23} := Q_{22} + \left(H\left(Q_{22_0}, Q_{22_1}, Q_{22_2}\right)^T \cdot H\left(Q_{22_0}, Q_{22_1}, Q_{22_2}\right)\right)^{-1} \cdot H\left(Q_{22_0}, Q_{22_1}, Q_{22_2}\right)^T \cdot \left(R - f\left(Q_{22_0}, Q_{22_1}, Q_{22_2}\right)\right) = \begin{pmatrix} 3.09 \\ 2.5 \\ -0.163 \end{pmatrix}$$

$$Q_{24} := Q_{23} + \left(H\left(Q_{23_0}, Q_{23_1}, Q_{23_2}\right)^T \cdot H\left(Q_{23_0}, Q_{23_1}, Q_{23_2}\right)\right)^{-1} \cdot H\left(Q_{23_0}, Q_{23_1}, Q_{23_2}\right)^T \cdot \left(R - f\left(Q_{23_0}, Q_{23_1}, Q_{23_2}\right)\right) = \begin{pmatrix} 3.09 \\ 2.5 \\ -0.163 \end{pmatrix}$$

$$Q_{25} := Q_{24} + \left(H\left(Q_{24_0}, Q_{24_1}, Q_{24_2}\right)^T \cdot H\left(Q_{24_0}, Q_{24_1}, Q_{24_2}\right)\right)^{-1} \cdot H\left(Q_{24_0}, Q_{24_1}, Q_{24_2}\right)^T \cdot \left(R - f\left(Q_{24_0}, Q_{24_1}, Q_{24_2}\right)\right) = \begin{pmatrix} 3.09 \\ 2.5 \\ -0.163 \end{pmatrix}$$