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

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

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

$N := 2$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$Q_1 := Q_0 + \left(H\left(Q0_0, Q0_1, Q0_2\right)^T \cdot H\left(Q0_0, Q0_1, Q0_2\right)\right)^{-1} \cdot H\left(Q0_0, Q0_1, Q0_2\right)^T \cdot \left(R - f\left(Q0_0, Q0_1, Q0_2\right)\right) = \begin{pmatrix} 20.208 \\ -8.752 \\ -51.451 \end{pmatrix}$$

$$Q_2 := Q_1 + \left(H\left(Q1_0, Q1_1, Q1_2\right)^T \cdot H\left(Q1_0, Q1_1, Q1_2\right)\right)^{-1} \cdot H\left(Q1_0, Q1_1, Q1_2\right)^T \cdot \left(R - f\left(Q1_0, Q1_1, Q1_2\right)\right) = \begin{pmatrix} 47.186 \\ 30.022 \\ 0.916 \end{pmatrix}$$

$$Q_3 := Q_2 + \left(H\left(Q_{2_0}, Q_{2_1}, Q_{2_2}\right)^T \cdot H\left(Q_{2_0}, Q_{2_1}, Q_{2_2}\right)\right)^{-1} \cdot H\left(Q_{2_0}, Q_{2_1}, Q_{2_2}\right)^T \cdot \left(R - f\left(Q_{2_0}, Q_{2_1}, Q_{2_2}\right)\right) = \begin{pmatrix} 14.406 \\ -0.549 \\ -22.514 \end{pmatrix}$$

$$Q_4 := Q_3 + \left(H\left(Q_{3_0}, Q_{3_1}, Q_{3_2}\right)^T \cdot H\left(Q_{3_0}, Q_{3_1}, Q_{3_2}\right)\right)^{-1} \cdot H\left(Q_{3_0}, Q_{3_1}, Q_{3_2}\right)^T \cdot \left(R - f\left(Q_{3_0}, Q_{3_1}, Q_{3_2}\right)\right) = \begin{pmatrix} 23.447 \\ 12.746 \\ 0.683 \end{pmatrix}$$

$$Q_5 := Q_4 + \left(H\left(Q_{4_0}, Q_{4_1}, Q_{4_2}\right)^T \cdot H\left(Q_{4_0}, Q_{4_1}, Q_{4_2}\right)\right)^{-1} \cdot H\left(Q_{4_0}, Q_{4_1}, Q_{4_2}\right)^T \cdot \left(R - f\left(Q_{4_0}, Q_{4_1}, Q_{4_2}\right)\right) = \begin{pmatrix} 10.382 \\ 5.558 \\ -2.152 \end{pmatrix}$$

$$Q_6 := Q_5 + \left(H\left(Q_{5_0}, Q_{5_1}, Q_{5_2}\right)^T \cdot H\left(Q_{5_0}, Q_{5_1}, Q_{5_2}\right)\right)^{-1} \cdot H\left(Q_{5_0}, Q_{5_1}, Q_{5_2}\right)^T \cdot \left(R - f\left(Q_{5_0}, Q_{5_1}, Q_{5_2}\right)\right) = \begin{pmatrix} 10.645 \\ 5.809 \\ 0.498 \end{pmatrix}$$

$$Q_7 := Q_6 + \left(H\left(Q_{6_0}, Q_{6_1}, Q_{6_2}\right)^T \cdot H\left(Q_{6_0}, Q_{6_1}, Q_{6_2}\right)\right)^{-1} \cdot H\left(Q_{6_0}, Q_{6_1}, Q_{6_2}\right)^T \cdot \left(R - f\left(Q_{6_0}, Q_{6_1}, Q_{6_2}\right)\right) = \begin{pmatrix} 10.129 \\ 6.124 \\ 2.034 \end{pmatrix}$$

$$Q_8 := Q_7 + \left(H\left(Q_{7_0}, Q_{7_1}, Q_{7_2}\right)^T \cdot H\left(Q_{7_0}, Q_{7_1}, Q_{7_2}\right)\right)^{-1} \cdot H\left(Q_{7_0}, Q_{7_1}, Q_{7_2}\right)^T \cdot \left(R - f\left(Q_{7_0}, Q_{7_1}, Q_{7_2}\right)\right) = \begin{pmatrix} 10.432 \\ 5.881 \\ -0.053 \end{pmatrix}$$

$$Q_9 := Q_8 + \left(H\left(Q_{8_0}, Q_{8_1}, Q_{8_2}\right)^T \cdot H\left(Q_{8_0}, Q_{8_1}, Q_{8_2}\right)\right)^{-1} \cdot H\left(Q_{8_0}, Q_{8_1}, Q_{8_2}\right)^T \cdot \left(R - f\left(Q_{8_0}, Q_{8_1}, Q_{8_2}\right)\right) = \begin{pmatrix} 10.235 \\ 6.037 \\ 1.52 \end{pmatrix}$$

$$Q_{10} := Q_9 + \left(H\left(Q_{9_0}, Q_{9_1}, Q_{9_2}\right)^T \cdot H\left(Q_{9_0}, Q_{9_1}, Q_{9_2}\right)\right)^{-1} \cdot H\left(Q_{9_0}, Q_{9_1}, Q_{9_2}\right)^T \cdot \left(R - f\left(Q_{9_0}, Q_{9_1}, Q_{9_2}\right)\right) = \begin{pmatrix} 12.688 \\ 4.194 \\ -15.958 \end{pmatrix}$$

$$Q_{11} := Q_{10} + \left(H\left(Q_{10_0}, Q_{10_1}, Q_{10_2}\right)^T \cdot H\left(Q_{10_0}, Q_{10_1}, Q_{10_2}\right)\right)^{-1} \cdot H\left(Q_{10_0}, Q_{10_1}, Q_{10_2}\right)^T \cdot \left(R - f\left(Q_{10_0}, Q_{10_1}, Q_{10_2}\right)\right) = \begin{pmatrix} 18.526 \\ 7.508 \\ 1.199 \end{pmatrix}$$

$$Q_{12} := Q_{11} + \left(H\left(Q_{11_0}, Q_{11_1}, Q_{11_2}\right)^T \cdot H\left(Q_{11_0}, Q_{11_1}, Q_{11_2}\right)\right)^{-1} \cdot H\left(Q_{11_0}, Q_{11_1}, Q_{11_2}\right)^T \cdot \left(R - f\left(Q_{11_0}, Q_{11_1}, Q_{11_2}\right)\right) = \begin{pmatrix} 10.051 \\ 6.892 \\ -3.492 \end{pmatrix}$$

$$Q_{13} := Q_{12} + \left(H\left(Q_{12_0}, Q_{12_1}, Q_{12_2}\right)^T \cdot H\left(Q_{12_0}, Q_{12_1}, Q_{12_2}\right)\right)^{-1} \cdot H\left(Q_{12_0}, Q_{12_1}, Q_{12_2}\right)^T \cdot \left(R - f\left(Q_{12_0}, Q_{12_1}, Q_{12_2}\right)\right) = \begin{pmatrix} 11.426 \\ 5.271 \\ 0.246 \end{pmatrix}$$

$$Q_{14} := Q_{13} + \left(H\left(Q_{13_0}, Q_{13_1}, Q_{13_2}\right)^T \cdot H\left(Q_{13_0}, Q_{13_1}, Q_{13_2}\right)\right)^{-1} \cdot H\left(Q_{13_0}, Q_{13_1}, Q_{13_2}\right)^T \cdot \left(R - f\left(Q_{13_0}, Q_{13_1}, Q_{13_2}\right)\right) = \begin{pmatrix} 10.176 \\ 6.189 \\ 1.24 \end{pmatrix}$$

$$Q_{15} := Q_{14} + \left(H\left(Q_{14_0}, Q_{14_1}, Q_{14_2}\right)^T \cdot H\left(Q_{14_0}, Q_{14_1}, Q_{14_2}\right)\right)^{-1} \cdot H\left(Q_{14_0}, Q_{14_1}, Q_{14_2}\right)^T \cdot \left(R - f\left(Q_{14_0}, Q_{14_1}, Q_{14_2}\right)\right) = \begin{pmatrix} 9.458 \\ 6.606 \\ 6.839 \end{pmatrix}$$

$$Q_{16} := Q_{15} + \left(H\left(Q_{15_0}, Q_{15_1}, Q_{15_2}\right)^T \cdot H\left(Q_{15_0}, Q_{15_1}, Q_{15_2}\right)\right)^{-1} \cdot H\left(Q_{15_0}, Q_{15_1}, Q_{15_2}\right)^T \cdot \left(R - f\left(Q_{15_0}, Q_{15_1}, Q_{15_2}\right)\right) = \begin{pmatrix} 10.845 \\ 5.997 \\ 2.786 \end{pmatrix}$$

$$Q_{17} := Q_{16} + \left(H\left(Q_{16_0}, Q_{16_1}, Q_{16_2}\right)^T \cdot H\left(Q_{16_0}, Q_{16_1}, Q_{16_2}\right)\right)^{-1} \cdot H\left(Q_{16_0}, Q_{16_1}, Q_{16_2}\right)^T \cdot \left(R - f\left(Q_{16_0}, Q_{16_1}, Q_{16_2}\right)\right) = \begin{pmatrix} 10.236 \\ 6.086 \\ 1.103 \end{pmatrix}$$

$$Q_{18} := Q_{17} + \left(H\left(Q_{17_0}, Q_{17_1}, Q_{17_2}\right)^T \cdot H\left(Q_{17_0}, Q_{17_1}, Q_{17_2}\right)\right)^{-1} \cdot H\left(Q_{17_0}, Q_{17_1}, Q_{17_2}\right)^T \cdot \left(R - f\left(Q_{17_0}, Q_{17_1}, Q_{17_2}\right)\right) = \begin{pmatrix} 9.811 \\ 6.343 \\ 4.321 \end{pmatrix}$$

$$Q_{19} := Q_{18} + \left(H\left(Q_{18_0}, Q_{18_1}, Q_{18_2}\right)^T \cdot H\left(Q_{18_0}, Q_{18_1}, Q_{18_2}\right)\right)^{-1} \cdot H\left(Q_{18_0}, Q_{18_1}, Q_{18_2}\right)^T \cdot \left(R - f\left(Q_{18_0}, Q_{18_1}, Q_{18_2}\right)\right) = \begin{pmatrix} 10.281 \\ 6.055 \\ 2.143 \end{pmatrix}$$

$$Q_{20} := Q_{19} + \left(H\left(Q_{19_0}, Q_{19_1}, Q_{19_2}\right)^T \cdot H\left(Q_{19_0}, Q_{19_1}, Q_{19_2}\right)\right)^{-1} \cdot H\left(Q_{19_0}, Q_{19_1}, Q_{19_2}\right)^T \cdot \left(R - f\left(Q_{19_0}, Q_{19_1}, Q_{19_2}\right)\right) = \begin{pmatrix} 10.394 \\ 5.915 \\ 0.176 \end{pmatrix}$$

$$Q_{21} := Q_{20} + \left(H\left(Q_{20_0}, Q_{20_1}, Q_{20_2}\right)^T \cdot H\left(Q_{20_0}, Q_{20_1}, Q_{20_2}\right)\right)^{-1} \cdot H\left(Q_{20_0}, Q_{20_1}, Q_{20_2}\right)^T \cdot \left(R - f\left(Q_{20_0}, Q_{20_1}, Q_{20_2}\right)\right) = \begin{pmatrix} 10.196 \\ 6.062 \\ 1.726 \end{pmatrix}$$

$$Q_{22} := Q_{21} + \left(H\left(Q_{21_0}, Q_{21_1}, Q_{21_2}\right)^T \cdot H\left(Q_{21_0}, Q_{21_1}, Q_{21_2}\right)\right)^{-1} \cdot H\left(Q_{21_0}, Q_{21_1}, Q_{21_2}\right)^T \cdot \left(R - f\left(Q_{21_0}, Q_{21_1}, Q_{21_2}\right)\right) = \begin{pmatrix} 10.74 \\ 5.65 \\ -2.251 \end{pmatrix}$$

$$Q_{23} := Q_{22} + \left(H\left(Q_{22_0}, Q_{22_1}, Q_{22_2}\right)^T \cdot H\left(Q_{22_0}, Q_{22_1}, Q_{22_2}\right)\right)^{-1} \cdot H\left(Q_{22_0}, Q_{22_1}, Q_{22_2}\right)^T \cdot \left(R - f\left(Q_{22_0}, Q_{22_1}, Q_{22_2}\right)\right) = \begin{pmatrix} 10.661 \\ 5.844 \\ 0.605 \end{pmatrix}$$

$$Q_{24} := Q_{23} + \left(H\left(Q_{23_0}, Q_{23_1}, Q_{23_2}\right)^T \cdot H\left(Q_{23_0}, Q_{23_1}, Q_{23_2}\right)\right)^{-1} \cdot H\left(Q_{23_0}, Q_{23_1}, Q_{23_2}\right)^T \cdot \left(R - f\left(Q_{23_0}, Q_{23_1}, Q_{23_2}\right)\right) = \begin{pmatrix} 10.103 \\ 6.143 \\ 2.205 \end{pmatrix}$$

$$Q_{25} := Q_{24} + \left(H\left(Q_{24_0}, Q_{24_1}, Q_{24_2}\right)^T \cdot H\left(Q_{24_0}, Q_{24_1}, Q_{24_2}\right)\right)^{-1} \cdot H\left(Q_{24_0}, Q_{24_1}, Q_{24_2}\right)^T \cdot \left(R - f\left(Q_{24_0}, Q_{24_1}, Q_{24_2}\right)\right) = \begin{pmatrix} 10.367 \\ 5.93 \\ 0.421 \end{pmatrix}$$