

range	freq
(105.0, 123.6)	7
(123.6, 142.2)	1
(142.2, 160.8)	11
(160.8, 179.4)	2
(179.4, 198.0)	9

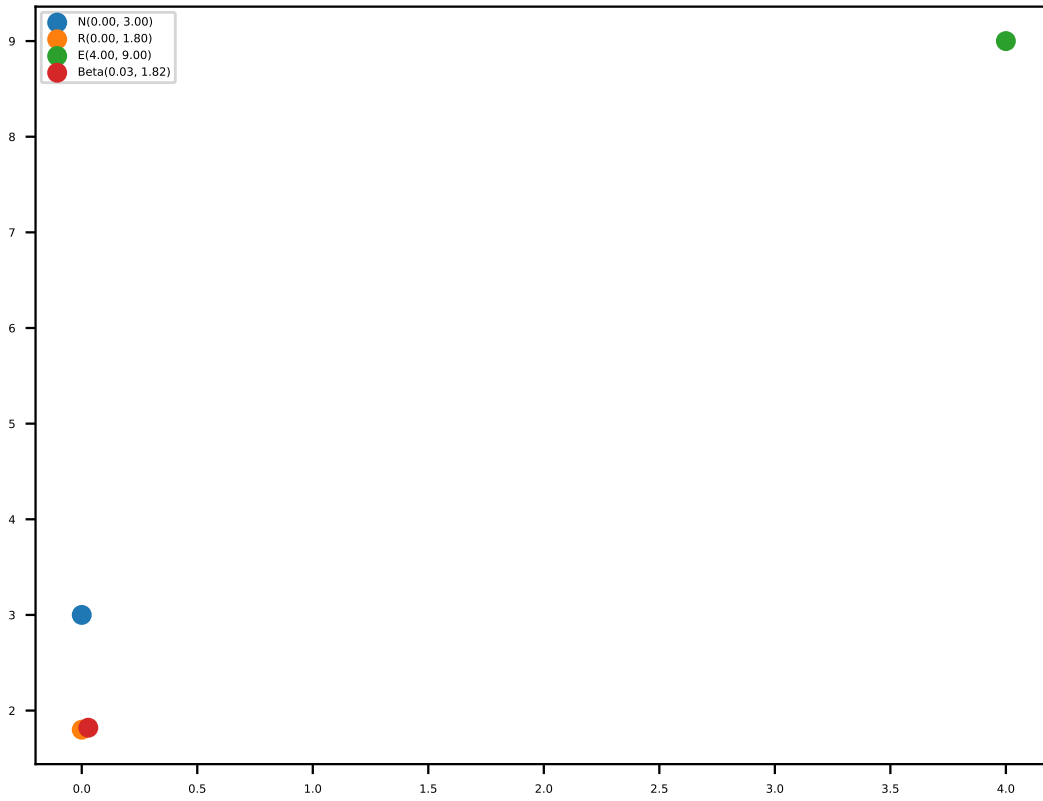
$$\begin{aligned}\overline{x_b} &= 154.60 \\ \mu_2 = D &= 753.02\end{aligned}$$

$$\mu_3 = \frac{1}{n} \sum_{j=1}^L n_j (x_j - \overline{x_b})^3 = \frac{1}{30} * (-104387.66) = -3479.59$$

$$\mu_4 = \frac{1}{n} \sum_{j=1}^L n_j (x_j - \overline{x_b})^4 = \frac{1}{30} * (30971015.55) = 1032367.19$$

$$\beta_1^2 = \frac{\mu_2^3}{\mu_3^2} = \frac{426991798.44}{12107538.22} = 0.03$$

$$\beta_2 = \frac{\mu_4}{\mu_2^2} = \frac{1032367.19}{567039.12} = 1.82$$



$$\alpha = \overline{x_b} = 154.6$$

$$\lambda = \sigma = \sqrt{D} = \sqrt{753.02} = 27.44$$

$$W_n(x; \alpha, \lambda) = \frac{1}{\lambda\sqrt{2\pi}} e^{-\frac{(x-\alpha)^2}{2\lambda^2}}$$

$$W_n(x; 154.60, 27.44) = \frac{1}{27.44\sqrt{2\pi}} e^{-\frac{(x-154.60)^2}{2 \cdot 27.44^2}}$$

