n = 5:

L = Table[li, {li, {1.0, 0.6, 0.3, 0.1, 0.05, 0.05}}] *

$$\begin{aligned} & \mathsf{Table} \Big[\frac{\mathsf{n}\,!}{\mathsf{i}\,!\, \left(\mathsf{n}\,-\,\mathsf{i}\right)\,!}\,,\, \{\,\mathsf{i}\,,\, \{\,\mathsf{0}\,,\, 1\,,\, 2\,,\, 3\,,\, 4\,,\, 5\,\}\,\} \,\Big] \,\star\, \mathsf{Table} \Big[\frac{\left(\mu\,/\,\mu\,\mathsf{0}\right)^{\,\mathsf{i}}}{\left(1\,+\,\mu\,/\,\mu\,\mathsf{0}\right)^{\,\mathsf{n}}}\,,\, \{\,\mathsf{i}\,,\, \{\,\mathsf{0}\,,\, 1\,,\, 2\,,\, 3\,,\, 4\,,\, 5\,\}\,\} \,\Big] \\ & \{ \frac{1\,.}{\left(1\,+\,\frac{\mu}{\mu\,\mathsf{0}}\right)^{\,\mathsf{5}}}\,,\, \frac{3\,.\,\,\mu^{\,\mathsf{2}}}{\left(1\,+\,\frac{\mu}{\mu\,\mathsf{0}}\right)^{\,\mathsf{5}}\,\mu\,\mathsf{0}^{\,\mathsf{2}}}\,,\, \frac{1\,.\,\,\mu^{\,\mathsf{3}}}{\left(1\,+\,\frac{\mu}{\mu\,\mathsf{0}}\right)^{\,\mathsf{5}}\,\mu\,\mathsf{0}^{\,\mathsf{3}}}\,,\, \frac{0\,.\,25\,\mu^{\,\mathsf{4}}}{\left(1\,+\,\frac{\mu}{\mu\,\mathsf{0}}\right)^{\,\mathsf{5}}\,\mu\,\mathsf{0}^{\,\mathsf{5}}} \,\Big\} \end{aligned}$$

Lsim = FullSimplify[

$$\frac{1}{\left(1+\frac{\mu}{\mu_{0}}\right)^{5}} + \frac{3\mu}{\left(1+\frac{\mu}{\mu_{0}}\right)^{5}\mu_{0}} + \frac{3\mu^{2}}{\left(1+\frac{\mu}{\mu_{0}}\right)^{5}\mu_{0}^{2}} + \frac{1\mu^{3}}{\left(1+\frac{\mu}{\mu_{0}}\right)^{5}\mu_{0}^{3}} + \frac{0.25\mu^{4}}{\left(1+\frac{\mu}{\mu_{0}}\right)^{5}\mu_{0}^{4}} + \frac{0.05\mu^{5}}{\left(1+\frac{\mu}{\mu_{0}}\right)^{5}\mu_{0}^{5}}\right]$$

$$\frac{0.05\mu^{5} + 0.25\mu^{4}\mu^{0} + 1.\mu^{3}\mu^{0}^{2} + 3.\mu^{2}\mu^{0}^{3} + 3.\mu^{2}\mu^{0}^{4} + 1.\mu^{0}^{5}}{\left(\mu + \mu^{0}\right)^{5}}$$

Ym = Table[\gammi, {\gammi, {0, 0.04, 0.2, 1.0, 1.0, 1.0}}] *

$$\begin{aligned} & \mathsf{Table} \Big[\frac{\mathsf{n}\,!}{\mathsf{i}\,!\, \left(\mathsf{n}\,-\,\mathsf{i}\right)\,!}\,,\, \left\{\mathsf{i}\,,\, \left\{0\,,\, 1\,,\, 2\,,\, 3\,,\, 4\,,\, 5\right\}\right\} \Big] \,\star\, \mathsf{Table} \Big[\frac{\left(\mu\,/\,\mu\theta\right)^{\,\mathsf{1}}}{\left(1\,+\,\mu\,/\,\mu\theta\right)^{\,\mathsf{n}}}\,,\, \left\{\mathsf{i}\,,\, \left\{0\,,\, 1\,,\, 2\,,\, 3\,,\, 4\,,\, 5\right\}\right\} \Big] \\ & \left\{0\,,\, \frac{0\,.\,2\,\mu}{\left(1\,+\,\frac{\mu}{\mu\theta}\right)^{\,\mathsf{5}}\,\mu\theta^{\,\mathsf{0}}}\,,\, \frac{2\,.\,\,\mu^{\,\mathsf{2}}}{\left(1\,+\,\frac{\mu}{\mu\theta}\right)^{\,\mathsf{5}}\,\mu\theta^{\,\mathsf{3}}}\,,\, \frac{5\,.\,\,\mu^{\,\mathsf{4}}}{\left(1\,+\,\frac{\mu}{\mu\theta}\right)^{\,\mathsf{5}}\,\mu\theta^{\,\mathsf{4}}}\,,\, \frac{1\,.\,\,\mu^{\,\mathsf{5}}}{\left(1\,+\,\frac{\mu}{\mu\theta}\right)^{\,\mathsf{5}}\,\mu\theta^{\,\mathsf{5}}} \right\} \end{aligned}$$

Ymsim =

$$\begin{aligned} & \text{FullSimplify} \Big[\frac{0.2\,\mu}{\left(1 + \frac{\mu}{\mu \Theta}\right)^5\,\mu\Theta} + \frac{2\,\mu^2}{\left(1 + \frac{\mu}{\mu \Theta}\right)^5\,\mu\Theta^2} + \frac{10\,\mu^3}{\left(1 + \frac{\mu}{\mu \Theta}\right)^5\,\mu\Theta^3} + \frac{5\,\mu^4}{\left(1 + \frac{\mu}{\mu \Theta}\right)^5\,\mu\Theta^4} + \frac{1\,\mu^5}{\left(1 + \frac{\mu}{\mu \Theta}\right)^5\,\mu\Theta^5} \Big] \\ & \frac{1}{\left(\mu + \mu\Theta\right)^5} \mu \, \left(\mu^4 + 5 \cdot \mu^3\,\mu\Theta + 10 \cdot \mu^2\,\mu\Theta^2 + 2 \cdot \mu\,\mu\Theta^3 + 0 \cdot 2\,\mu\Theta^4\right) \end{aligned}$$

$$(* Pl = L/(Ym+km) *)$$

Plmu5 = FullSimplify
$$\left[\left(\frac{1}{(\mu + \mu \theta)^5} \left(0.05 \, \mu^5 + 0.25 \, \mu^4 \, \mu \theta + 1 \, \mu^3 \, \mu \theta^2 + 3 \, \mu^2 \, \mu \theta^3 + 3 \, \mu \, \mu \theta^4 + 1 \, \mu \theta^5 \right) \right] / \left(0.5 + \left(\mu \, \left(\mu^4 + 5 \, \mu^3 \, \mu \theta + 10 \, \mu^2 \, \mu \theta^2 + 2 \, \mu \, \mu \theta^3 + 0.2 \, \mu \theta^4 \right) \right) / \left(\mu + \mu \theta \right)^5 \right) \right]$$

$$\left(0.05 \, \mu^5 + 0.25 \, \mu^4 \, \mu \theta + \mu^3 \, \mu \theta^2 + 3 \, \mu^2 \, \mu \theta^3 + 3 \, \mu \, \mu \theta^4 + \mu \theta^5 \right) / \left(\left(\mu + \mu \theta \right)^5 \left(0.5 + \left(\mu \, \left(\mu^4 + 5 \, \mu^3 \, \mu \theta + 10 \, \mu^2 \, \mu \theta^2 + 2 \, \mu \, \mu \theta^3 + 0.2 \, \mu \theta^4 \right) \right) / \left(\mu + \mu \theta \right)^5 \right) \right)$$