$$(*Py(mu,3)*)$$

n = 3

Ymu = Table[$\gamma \mu i$, { $\gamma \mu i$, {0, 0.005, 0.05, 0.5}}] *

Table
$$\left[\frac{n!}{i! (n-i)!}, \{i, \{0, 1, 2, 3\}\}\right] \star Table \left[\frac{(\mu/\mu0)^{i}}{(1+\mu/\mu0)^{n}}, \{i, \{0, 1, 2, 3\}\}\right]$$

$$\left\{0, \frac{0.015 \, \mu}{\left(1 + \frac{\mu}{\mu 0}\right)^3 \, \mu 0}, \frac{0.15 \, \mu^2}{\left(1 + \frac{\mu}{\mu 0}\right)^3 \, \mu 0^2}, \frac{0.5 \, \mu^3}{\left(1 + \frac{\mu}{\mu 0}\right)^3 \, \mu 0^3}\right\}$$

$$\text{Ymusim = FullSimplify} \Big[\frac{0.015\,\mu}{\left(1 + \frac{\mu}{\mu\theta}\right)^3\,\mu\theta} + \frac{0.15\,\mu^2}{\left(1 + \frac{\mu}{\mu\theta}\right)^3\,\mu\theta^2} + \frac{0.5\,\mu^3}{\left(1 + \frac{\mu}{\mu\theta}\right)^3\,\mu\theta^3} \Big]$$

$$\frac{\mu \, \left(\textbf{0.5} \, \mu^{\textbf{2}} + \textbf{0.15} \, \mu \, \mu \textbf{0} + \textbf{0.015} \, \mu \textbf{0}^{\textbf{2}}\right)}{\left(\mu + \mu \textbf{0}\right)^{\textbf{3}}}$$

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

Table
$$\left[\frac{n!}{i! (n-i)!}, \{i, \{0, 1, 2, 3\}\}\right] * Table \left[\frac{(\mu/\mu0)^i}{(1+\mu/\mu0)^n}, \{i, \{0, 1, 2, 3\}\}\right]$$

$$\left\{0, \frac{0.12 \, \mu}{\left(1 + \frac{\mu}{\mu \, 0}\right)^3 \, \mu \, 0}, \frac{0.6 \, \mu^2}{\left(1 + \frac{\mu}{\mu \, 0}\right)^3 \, \mu \, 0^2}, \frac{1. \, \mu^3}{\left(1 + \frac{\mu}{\mu \, 0}\right)^3 \, \mu \, 0^3}\right\}$$

$$\text{Ymsim} = \text{FullSimplify} \Big[\frac{0.12 \, \mu}{\left(1 + \frac{\mu}{\mu 0}\right)^3 \, \mu 0} + \frac{0.6 \, \mu^2}{\left(1 + \frac{\mu}{\mu 0}\right)^3 \, \mu 0^2} + \frac{1 \, \mu^3}{\left(1 + \frac{\mu}{\mu 0}\right)^3 \, \mu 0^3} \Big]$$

$$\frac{\mu \, \left(\mu^2 + 0.6 \, \mu \, \mu 0 + 0.12 \, \mu 0^2\right)}{\left(\mu + \mu 0\right)^3}$$

Pvmu5 =

FullSimplify
$$\left[\left(\frac{\mu \left(0.5 \, \mu^2 + 0.15 \, \mu \, \mu 0 + 0.015 \, \mu 0^2 \right)}{\left(\mu + \mu 0 \right)^3} \right) / \left(0.5 + \frac{\mu \left(\mu^2 + 0.6 \, \mu \, \mu 0 + 0.12 \, \mu 0^2 \right)}{\left(\mu + \mu 0 \right)^3} \right) \right]$$

$$\left(\mu \left(0.333333 \, \mu^2 + 0.1 \, \mu \, \mu 0 + 0.01 \, \mu 0^2 \right) \right) / \left(1. \, \mu^3 + 1.4 \, \mu^2 \, \mu 0 + 1.08 \, \mu \, \mu 0^2 + 0.333333 \, \mu 0^3 \right)$$