```
(*Py(mu,2)*)
n = 2;
Ymu = Table[γμi, {γμi, {0, 0.005, 0.05}}] *
   Table[n!/(i! (n - i)!), {i, {0, 1, 2}}] * Table[(μ/μ0)^i/(1 + μ/μ0)^n, {i, {0, 1, 2}}]
```

$$\left\{0, \frac{0.01\,\mu}{\left(1+\frac{\mu}{\mu 0}\right)^2 \mu 0}, \frac{0.05\,\mu^2}{\left(1+\frac{\mu}{\mu 0}\right)^2 \mu 0^2}\right\}$$

```
Ymusim = FullSimplify[0.01 μ/(1 + μ/μ0)^2 μ0 + 0.05 μ^2/(1 + μ/μ0)^2 μ0^2]
```

$$\frac{\mu\,(0.05\,\mu + 0.01\,\mu 0)}{(\mu+\mu 0)^2}$$

```
Ym = Table[γmi, {γmi, {0, 0.04, 0.2}}] *
   Table[n!/(i! (n - i)!), {i, {0, 1, 2}}] * Table[(μ/μ0)^i/(1 + μ/μ0)^n, {i, {0, 1, 2}}]
```

$$\left\{0, \frac{0.08\,\mu}{\left(1+\frac{\mu}{\mu 0}\right)^2 \mu 0}, \frac{0.2\,\mu^2}{\left(1+\frac{\mu}{\mu 0}\right)^2 \mu 0^2}\right\}$$

```
Ymsim = FullSimplify[0.08 μ/(1 + μ/μ0)^2 μ0 + 0.2 μ^2/(1 + μ/μ0)^2 μ0^2]
```

$$\frac{\mu\,(0.2\,\mu + 0.08\,\mu 0)}{(\mu+\mu 0)^2}$$

```
(* Py = Ymu/(Ym+km) *)
Pymu2 = FullSimplify[(μ (0.05 μ + 0.01 μ0)/(μ + μ0)^2)/(0.5 + μ (0.2 μ + 0.08 μ0)/(μ + μ0)^2)]
```

$$\frac{\mu\,(0.0714286\,\mu + 0.0142857\,\mu 0)}{1.\,\mu^2 + 1.54286\,\mu\,\mu 0 + 0.714286\,\mu 0^2}$$