

$${}^{o+L}\gamma = \sum_m^n \frac{L^m}{m!} {}^o\gamma_m + \int_{ds}^{0 \leq s \leq 1} \frac{n \setminus 1}{1-s} L^{n \ o+sl} \gamma_n$$

$$\text{error } {}^{o+L}\gamma - \sum_m^n \frac{L^m}{m!} {}^o\gamma_m = \int_{ds}^{0 \leq s \leq 1} \frac{n \setminus 1}{1-s} L^{n \ o+sl} \gamma_n$$

$$\overline{R_n} = \int_{ds}^{0 \leq s \leq 1} \frac{n \setminus 1}{1-s} L^{n \ o+sl} \gamma_n \leq \frac{L^n}{n!} \underbrace{\left(\frac{n \setminus 1}{1-s} L^{n \ o+sl} \gamma_n \right)}_{\leq 1}$$

$$s\varphi = {}^{o+sl}\gamma \Rightarrow \frac{s\varphi}{m!} = L^{m \ o+sl} \gamma_m$$

$$\overline{R_n} \leq \int_{ds}^{0 \leq s \leq 1} \frac{n \setminus 1}{1-s} \underbrace{\left(\frac{L^n}{n!} L^{n \ o+sl} \gamma_n \right)}_{\leq 1} \leq \frac{L^n}{n!} \underbrace{\left(\frac{n \setminus 1}{1-s} L^{n \ o+sl} \gamma_n \right)}_{\leq 1} \int_{ds}^{0 \leq s \leq 1} \frac{n \setminus 1}{1-s}$$

$$\int_{ds}^{0 \leq s \leq 1} \frac{n \setminus 1}{1-s} = -\text{Ev}_0^1 \left(\frac{(1-s)^n}{n!} \right) = \frac{1}{n!}$$