for
$$0 \le m \le c$$
:

$$\lambda P_0 = MP_1 \rightarrow P_1 = \frac{\lambda}{M}P_0$$

$$\lambda P_0 - MP_1 = \lambda P_1 - 2MP_2 \rightarrow P_2 = \frac{\lambda}{2M}P_1$$

$$\lambda P_1 - 2MP_2 = \lambda P_2 - 3MP_3 \rightarrow P_3 = \frac{\lambda}{3M}P_2$$

$$CMP_{c+1} = \lambda P_c \rightarrow P_{c+1} = \frac{\lambda}{cM}P_c$$

$$CMP_{c+2} = \lambda P_{c+1} \rightarrow P_{c+1} = \frac{\lambda}{cM}P_{c+1}$$

$$CMP_{c+1} = \lambda P_c \rightarrow P_{c+1} = \frac{\lambda}{cM}P_{c+1}$$

$$P_m = (\frac{\lambda}{M}) \frac{1}{m!} P_0$$

$$P_m = (\frac{\lambda}{M}) (\frac{\lambda}{M}) \frac{1}{c!} P_0$$

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