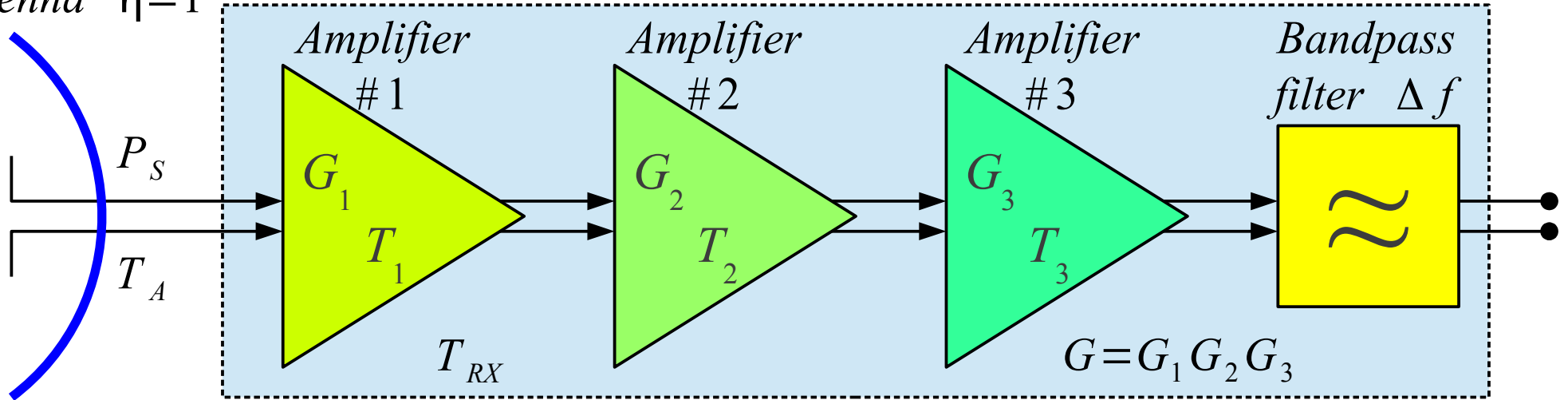


Lossless
antenna $\eta=1$

$$P_s' = G_3 G_2 G_1 P_s$$



$$P_N' = \Delta f k_B \left[G_3 G_2 G_1 (T_A + T_1) + G_3 G_2 T_2 + G_3 T_3 \right]$$

$$P_N' = G_3 G_2 G_1 \Delta f k_B (T_A + T_{RX}) \quad \Rightarrow \quad T_{RX} = T_1 + \frac{T_2}{G_1} + \frac{T_3}{G_1 G_2} + \dots$$

