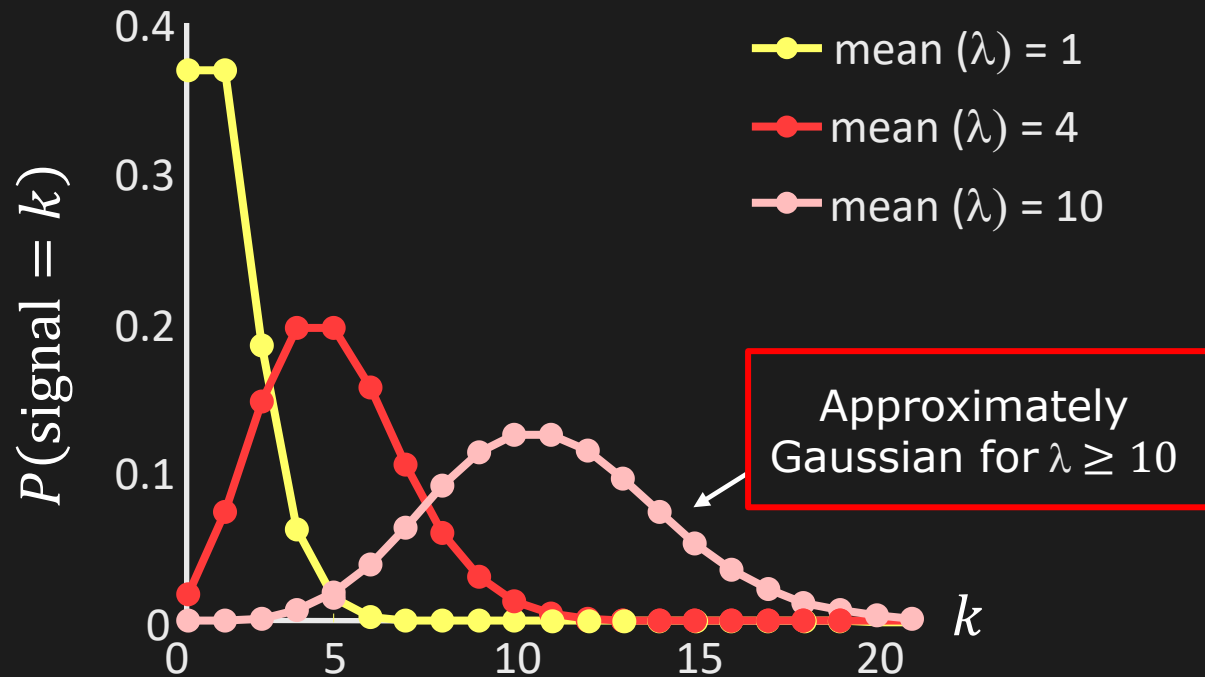


Photon Noise: Poisson Distribution



$$P(\text{signal} = k) = \frac{\lambda^k e^{-\lambda}}{k!}$$

$\text{Var} [\text{signal}] = \text{Mean} [\text{signal}] \Rightarrow$ Scene Dependent Noise