A discrete random variable X, with probability function

$$P(X = x) = e^{-\lambda} \frac{\lambda^x}{x!} \qquad for\ x = 0, 1, 2, 3, \ldots$$

where λ can take any positive value, follows a
Poisson distribution with parameter λ.

In short, $X \sim Po(\lambda)$.

with parameter λ

is distributed

As a Poisson distribution

Mei Statistics 1 Discrete Random Variables

Yicheng Fang

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