Wikipedia

Mathematical Model - Mare sure how it is well posed.

Stochastic Process
- Special type of Probability function

- 1. Counting Process: Sequencing Model
- a. Poisson Process:
- 3. Renewable Process: Markov Chains
- 4. Random Walk and Nightingale

Enjectations

Indicator Random Variable

Stochastically Indepedent between Each-Other.

$$\frac{S_n}{n} = \frac{x_1 + x_2 - \dots + x_n}{n}$$
 becomes determineter when $n \to \infty$

Filmest Gain of Detail

$$\Pr\left\{\frac{S_{n}-n\bar{x}}{\sqrt{m\sigma}}\leq\gamma^{2}\right\} \simeq \int_{-\infty}^{\gamma}\frac{1}{\sqrt{2\pi\sigma}}e^{-n^{2}x}$$

$$\frac{P_{Sn}(k+1)}{P_{Sn}(k)}$$
 2 $\frac{n-k}{k+1}$ $\frac{p}{q}$ $\frac{1}{q}$ 3 brickly decreasing.

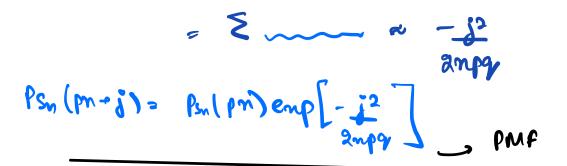
Central limit Messeum.

Kz npri

Putting in the Value

$$\frac{n - (npri)}{(nprir)} (\frac{p}{qr})$$
 $\frac{1+2+8}{(nprir)} (\frac{p}{qr})$

$$= lm(1-\frac{i}{mp}) - lm(1-\frac{i}{mp})$$



Convergence en Probability -> Convergence in Distribution.

Pristribution

Mican Square

ibrien Weak Can of large Nambou less powerful but More general

Central limit Tweoreum

we so $Z_m(w) = Z(w) = 1$ I maps that $Z_m(w) = Z(w) = 1$ I maps that $Z_m(w) = Z(w) = 1$ The state of $Z_m(w) = Z(w) = 1$ The state of

Storng leur of large Number