$$S = \sum_{i=1}^{100} X_{i} \qquad \text{Yn} BN Comp(0.2, q = \frac{1}{1.2}; f_{3})$$

$$\int_{g} (loog) = 0.4 \cdot 0.6^{1-1} \qquad 1 = 1.2, ...$$

$$Y = \sum_{i=1}^{M} B_{i} \qquad Q_{x}(t) = P_{H} (Q_{x}(t)) = \frac{V_{12}}{V_{-} V_{12} + \frac{1}{12} Q_{x}(t)}^{0.2}$$

$$Q_{s}(t) = Q_{x}(t) ... Q_{x}(t) \quad \text{Unit} (Coole)$$

$$\int_{S} (R) = \int_{0.026}^{0.026} c c dN \\ c c c dN \\ c c c dN$$

#6

X N BN Comp (0.4,
$$q = \frac{9}{3}$$
, f_{2})

B: Min (C; 600) Cn Weibull (0.8, $\frac{1}{1000}$)

\$\frac{3}{3}:\lambda \text{lows} \tag{7}

$$\mathcal{Q}_{\mathsf{X}}(\mathfrak{e})$$
 : $\mathcal{P}_{\mathsf{\Pi}}(\mathcal{Q}_{\mathsf{g}}(\mathfrak{e}))$

$$\frac{\#f}{f_{H}(x)} = (1.0) + 0 f_{H'}(x) \qquad 0 = 0.05$$

$$\frac{1}{18}(loopj) = 0.4 \quad 0.6 \quad 0.6 \quad |N^{\dagger}| \qquad |M' \sim Poi(1)|$$

$$P_{n}^{(0)} = 0 P_{n'}^{(0)}$$
 $= 1 \times 1 = 0.97 + 0.051 = 1$

$$P_{n}^{(1)} = (1.0) + 0 P_{n'}^{(1)}$$

$$P_{\Pi}(t) = 0 P_{\Pi}(0) + t((1-\theta) + 0 P_{\Pi}(1)) + \sum_{j=2}^{\infty} P_{\Pi}(j) t^{j}$$

$$P_{\Pi}(t) = (1-\theta)t + 0 \sum_{j=2}^{\infty} P_{\Pi}(j) t^{j}$$

$$\mathcal{C}_{x}(t) = \mathcal{P}_{n}(\mathcal{C}_{g}(t)) = (1-0) + \partial \mathcal{P}_{n'}(\mathcal{C}_{g}(t))$$

W, W₂

 $X = VW_1 - W_1 = \frac{X}{V}$ $\int_{W} (w) = \frac{3 (u \cos 3)}{(u \cos 4 + u \cos 4)} = \frac{1}{(u \cos 4 + u \cos 4)} = \frac{3 (u \cos 2)}{(u \cos 4 + u \cos 4)} = \frac{3 (u \cos 4)}{(u \cos 4 + u \cos 4)} = \frac{3 (u \cos 4)}{(u \cos 4 + u \cos 4)} = \frac{3 (u \cos 4)}{(u \cos 4)} = \frac{3 (u \cos 4)}{$

 $X_{1} N Pa(3,3800)$ (X + 0.91 hoso) $X_{2} Po(3,366)$ Z = ZX + ZX

1000 c

Atelier

a)
$$U_{X_{1}}(k) + U_{X_{2}}(k) = \mathbb{E}[X_{1}|S_{2},k] + \mathbb{E}[X_{2}|S_{2},k]$$

 $\mathbb{E}[X_{1}|X_{2}|S_{2},k] = \mathbb{E}[S_{1}|S_{2},k] = K$

$$\mathbb{E}[X_{i}|S=k] = \frac{\mathbb{E}[X_{i}|1|S=k]}{\int_{S}(k)} = \frac{k}{\sum_{i=1}^{k} \int_{X_{i}}(1) \int_{X_{i}}(k-j)} \int_{S}(k)$$

$$\mathbb{E} \left[\mathbb{E}[X_{1}|S_{2}|K] \right] = \sum_{k=0}^{\infty} \mathbb{E}[X_{1}|S_{2}|K] = \sum_{k=0}^{\infty} \frac{\mathbb{E}[X_{1}|S_{2}|K]}{\mathbb{E}[X_{1}|S_{2}|K]} \cdot \mathbb{E}[X_{1}|S_{2}|K] \right]$$

$$= \sum_{k=0}^{\infty} \sum_{j=0}^{K} j \int_{X_{1}} (j) \int_{X_{2}} (K-j)$$

$$= \mathbb{E}[X_1] \xrightarrow{\infty} Q \times \int_{X_2} (K) = \mathbb{E}[X_1]$$

$$F[X_1, 1]_{S=k} = \sum_{j=0}^{k} f_{X_j}(s_j) \int_{X_k} (R-j)$$

$$\frac{\#^3}{\mathscr{L}_{X_i}(t)} = \#[X_i 1_{S=k1}]/J_{S}(k) \qquad X_i \sim Poi(X_i)$$

$$\sum_{j=0}^{K} j e^{-\lambda_{j}} \frac{\lambda_{j}^{j}}{j!} e^{-\lambda_{2}} \frac{\lambda_{2}^{k-j}}{(\kappa-j)!}$$

$$\frac{e^{-(\lambda_{1}+\lambda_{2})}}{\kappa!} \sum_{j=0}^{\kappa} i \binom{\kappa}{j} \left(\frac{\lambda_{1}}{\lambda_{1}+\lambda_{2}}\right) \left(\frac{\lambda_{2}}{\lambda_{1}+\lambda_{2}}\right) \left(\frac{\lambda_{2}}{\lambda_{1}+\lambda_{2}}\right) \left(\frac{\lambda_{2}}{\lambda_{2}+\lambda_{2}}\right)$$

$$(\lambda_1 + \lambda_2)^k \frac{e^{-(\lambda_1 + \lambda_2)}}{k!} \times \frac{\lambda_1}{\lambda_1 + \lambda_2}$$

$$(l_{x_i}(k) = \mathbb{E}[X_i 1_{S=k}]) / J_s(k) = (l_{x_i}(k)) / J_s(k) = (l_{x_i}$$

$$\mathcal{C}_{X_i}(K) = K \frac{\times_i + \times_s}{\times_i + \times_s}$$

b)
$$U_{X_1}(S) = S \frac{\lambda_1}{\lambda_1 \lambda_2}$$
, $C_{X_2}(S) = S \frac{\lambda_2}{\lambda_1 \lambda_2}$
c) $\mathbb{T}[U_{X_1}(S) = \mathbb{T}[S \frac{\lambda_1}{\lambda_1 \lambda_2}] = \lambda_1 V$

Distribution de frequence de fft

$$\frac{\# 1}{2} M_z K_{1+} K_2 \qquad K_1 \sim Poi(\lambda) K_2 \sim N Binorm (r,q)$$

$$P_M(s) = \frac{qr}{(1-(1-q)s)^r} e^{\lambda(s-1)}$$

$$P_{M}(s) = \frac{q}{(1-(1-q)s)} e^{\lambda(s-1)}$$

$$\mathcal{L}(M=K) = \sum_{k=0}^{\infty} \int_{X_{i}} (i) \int_{X_{i}} (K-i)$$

$$\mathbb{E}[M] = 3$$
 $\mathbb{E}[B] = \mathbb{C}^{M + 0} = \mathbb{C}^{[n(100) - \frac{0.64}{2} + \frac{0.64}{2} = 100}$

$$P_{X}(s) = P_{n}(P_{B}(H)) = P_{K_{1}}(P_{B}(H))P_{K_{1}}(P_{B}(H))$$

$$X = \sum_{j=1}^{K_{1}} B_{j} + \sum_{j=1}^{K_{2}} B_{j}$$

$$\frac{\#^{3}}{P_{X}(s)} = P_{M}(P_{B}(s))$$

$$\int_{\mathbb{R}} (k) = \Phi\left(\frac{\ln(k) - M}{s}\right) = \Phi\left(\frac{\ln(k-1) - M}{s}\right)$$

$$\mathcal{C}_{X}(t) = \mathcal{P}_{H}(\mathcal{U}_{B}(t))$$