$$= \frac{P(N(S)=1) P(N(H+N(S)=0)}{P(N(H)=1)} = \frac{\lambda S exp(-\lambda S) exp(-\lambda H-S)}{\lambda H exp(-\lambda H)}$$

$$= \frac{S}{H} = \frac{1}{f_{T}(H)(H)=1} = \frac{1}{dS} F_{T}(S|N(H)=1) = \frac{1}{H} , (0 \leq S \leq H)$$

$$= \frac{S}{H} = \frac{1}{f_{T}(H)(H)=2} = \frac{1}{f_{T}($$

$$N(t). \quad S_{1}, S_{2}, \cdots; S_{N}. \quad S_{N} - S_{N-1} = T_{N} \sim E_{N}p(\lambda).$$

$$N(t) \stackrel{!}{=} E_{N}p(\lambda) \quad S_{N(t)+1} - S_{N(t)} \Rightarrow E(S_{N(t)+1} - S_{N(t)} | N(t) = N)$$

$$\stackrel{!}{=} \frac{1}{N(t)} \stackrel{!}{=} \frac{1}{N(t)} = \frac{1}{N(t)}$$

$$\int_{C} \int_{C} \int_{$$

N(t)=n. "Microcell"

$$= \lim_{\Delta S_{-} \to 0} \frac{1}{\Delta S_{+} \to 0} \frac{(\lambda + 1)^{n} \exp(-\lambda \Delta S_{+})}{(\lambda + 1)^{n} \exp(-\lambda \Delta S_{+})} \exp(-\lambda (t - \frac{s^{n}}{2} \Delta S_{+})).$$

$$= \lim_{\Delta S_{+} \to 0} \frac{1}{\Delta S_{+} \to 0} \frac{(\lambda + 1)^{n} \exp(-\lambda \Delta S_{+})}{(\lambda + 1)^{n} \exp(-\lambda \Delta S_{+})} \exp(-\lambda \Delta S_{+}) \exp(-\lambda \Delta S_{+}).$$

$$= \lim_{\Delta S_{+} \to 0} \frac{1}{\Delta S_{+} \to 0} \frac{1}{\Delta S_{+} \to 0} \exp(-\lambda \Delta S_{+}) \exp(-\lambda \Delta S_{+}) \exp(-\lambda \Delta S_{+}).$$

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$$= \lim_{\Delta S_{+} \to 0} \frac{1}{\Delta S_{+} \to 0} \exp(-\lambda \Delta S_{+}).$$

$$= \frac{s}{t}$$

$$= |-1| = \frac{d}{ds} F_{T}(s) N(t)$$

$$= P(T_{1} \leq S_{1}, T_{2};$$

$$= P(T_{2} \leq S_{1}, T_{2};$$

$$= P(T_{3} \leq S_{1}, T_{2};$$

$$= P(T_{4} \leq S_{1}, T_{4};$$

$$f_{\overline{Z}(N)}(x) = \frac{d}{dx} F_{\overline{Z}(N)}(x) = N \left(F_{\overline{Z}}(x) \right)^{N-1} f_{\overline{Z}}(x).$$

$$F_{\overline{Z}(N)}(x) = P(\overline{Z}(N) = x) = P(\min(\overline{Z}_1, \dots, \overline{Z}_N) = x)$$

$$= |-P(\min(\overline{Z}_1, \dots, \overline{Z}_N) > x) = |-P(\overline{Z}_1 > x, \dots, \overline{Z}_N > x)$$

$$= |-(P(\overline{Z}_1 > x))^N = |-(|-F_{\overline{Z}}(x))^N f_{\overline{Z}(N)}(x) = N(|-F_{\overline{Z}}(x)|^{N-1} f_{\overline{Z}}(x)$$

$$F_{\overline{Z}(N)}(x) = P(\overline{Z}(N) = x) f_{\overline{Z}(N)}(x) = \lim_{\Delta x \to 0} \frac{1}{\Delta x} (F_{\overline{Z}(N)}(x + \Delta x) - F_{\overline{Z}(N)}(x))$$

$$\Xi_{(1)} = \Xi_{(2)} = \Xi_{(N)}, \quad \exists_{(N)} = P(\Xi_{(N)} = X), \\
\Xi_{(1)} = \Xi_{(2)} = \Xi_{(N)}, \quad \exists_{(N)} = P(\Xi_{(N)} = X), \\
\Xi_{(1)} = \min(\Xi_{(1)} = \Xi_{(N)}), \quad = P(\max(\Xi_{(1)} = X)) = X), \\
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\Xi_{(N)} = \max(\Xi_{(N)} = X), \quad = P(\Xi_{(N)} = X),$$

$$= \lim_{\Delta x \to 0} \frac{1}{\Delta x} P(x \in \mathbb{Z}_{(k)} \in x + \Delta x).$$

$$= \lim_{\Delta x \to 0} \frac{1}{\Delta x} P(\mathbb{Z}_{(1)}, \dots, \mathbb{Z}_{(k-1)} \in x, x \in \mathbb{Z}_{k} \in x + \Delta x, \mathbb{Z}_{(k+1)}, \dots, \mathbb{Z}_{(k+1)} \neq 0$$

$$= \lim_{\Delta x \to 0} \frac{1}{\Delta x} (F_{\mathbb{Z}}(x))^{k-1} (I - F_{\mathbb{Z}}(x + \Delta x))^{k-k} (F_{\mathbb{Z}}(x + \Delta x) - F_{\mathbb{Z}}(x))$$

$$= \lim_{\Delta x \to 0} \frac{1}{\Delta x} (F_{\mathbb{Z}}(x))^{k-1} (I - F_{\mathbb{Z}}(x))^{k-k} (F_{\mathbb{Z}}(x + \Delta x) - F_{\mathbb{Z}}(x))$$

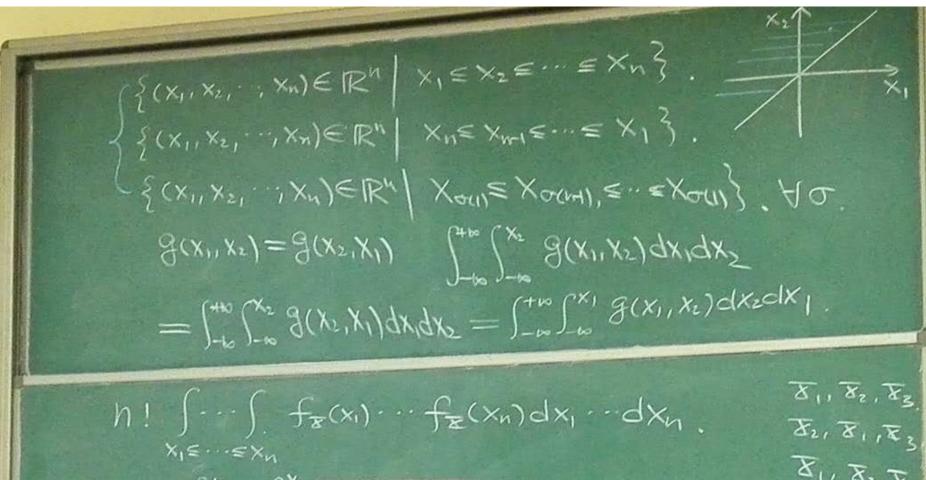
$$= \lim_{\Delta x \to 0} \frac{1}{\Delta x} P(\mathbb{Z}_{(k)})^{k-1} (I - F_{\mathbb{Z}}(x))^{k-k} (F_{\mathbb{Z}}(x))^{k-k} (F_{\mathbb{Z}}(x))^{k-1} (I - F_{\mathbb{Z}}(x))^{k-1} (I - F_{\mathbb{Z}}(x)^{k-1} (I - F_{\mathbb{Z}}(x))^{k-1} (I - F_{\mathbb{Z}}(x))^{k-1} (I - F_{\mathbb{Z}}(x))^{k-1} (I - F_{\mathbb{Z}}(x)^{k-1} (I - F_{\mathbb{Z}}(x))^{k-1} (I - F_{\mathbb{Z}}(x))^{k-1} (I - F_{\mathbb{Z}}(x))^{k-1} (I - F_{\mathbb{Z}}($$

$$\int_{\mathcal{B}(m)} \overline{\mathcal{B}}(x) (\times_{m}, \times_{k}) \cdot m < k \cdot C = \binom{n}{n-1} \binom{n-m}{1} \binom{n-m}{k-m-1} \binom{n-k+1}{1}.$$

$$= C (F_{\mathcal{B}}(x))^{m-1} \int_{\mathcal{B}} (\times_{m}) (F_{\mathcal{B}}(x_{k}) - F_{\mathcal{B}}(x_{m}))^{k-m-1} \int_{\mathcal{B}} (\times_{k}) (1 - F_{\mathcal{B}}(x_{k}))^{k-k+1} \int_{\mathcal{B}} (\times_{k}) (1 - F_{\mathcal{B}}(x_{k}) (1 - F_{\mathcal{B}}(x_{k}))^{k-k+1} \int_{\mathcal{B}} (\times_{k}) (1 - F_{\mathcal{B}}(x_{k}))^{k-k+1} \int$$

$$\frac{\int g(m), g(x)(x_{m}, x_{k}) \cdot m \cdot k}{\int g(x_{m})} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot m \cdot k}{\int g(x_{m})(x_{m}, x_{k})} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k \cdot k \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k \cdot k \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k \cdot k \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int g(x_{m})(x_{m}, x_{k}) \cdot k}{\int g(x_{m})(x_{m}, x_{k}) \cdot k} \frac{\int$$

 $P(-\frac{x < \xi_{F} \in x + \partial x, Z_{(x+1)}, ; \xi_{(x)} > x_{(x+1)}}{|F_{\Xi}(x)|^{N+\epsilon} (F_{\Xi}(x + \partial x) - F_{\Xi}(x))}$ $= \frac{1}{|F_{\Xi}(x)|^{N+\epsilon}} f_{\Xi}(x)$ $= \frac{x}{|X_{(n)}|} \frac{x}{|X_{(n)}|} \frac{x}{|X_{(n)}|}$



= n! f... fx(xi)...fx(xi) dx, -.. dxn. Sylmmetric Function g(X1, ..., Xn) = g(Xou1, ..., Xoun) O: P

3(x",...,x")=#+texx)

X1, X3, X2

$$= E(S_{N+1}) - E(S_{N} | N(t) = N)$$

$$= \frac{N+1}{N} - \frac{N}{N+1} \cdot t$$

$$= \frac{1}{t^{n}} \int_{0}^{t} n s^{n-1} ds$$

$$= \frac{1}{t^{n}} \int_{0}^{t} n s^{n} ds$$

$$= \frac{1}{t^{n}} \int_{0}^{t} n s^{n} ds$$

$$= \frac{1}{t^{n}} + \frac{1}{\lambda t} \frac{2}{N!} \frac{(\lambda + 1)^{n}}{N!} \exp(-\lambda t)$$

$$= \frac{1}{\lambda t} + \frac{1}{\lambda t} \frac{2}{N!} \frac{(\lambda + 1)^{n}}{N!} \exp(-\lambda t)$$

$$= \frac{1}{\lambda t} + \frac{1}{\lambda t} \frac{2}{N!} \frac{(\lambda + 1)^{n}}{N!} \exp(-\lambda t)$$

$$= \frac{1}{\lambda t} + \frac{1}{\lambda t} \frac{2}{N!} \frac{(\lambda + 1)^{n}}{N!} \exp(-\lambda t)$$

$$= \frac{1}{\lambda t} + \frac{1}{\lambda t} \frac{2}{N!} \frac{(\lambda + 1)^{n}}{N!} \exp(-\lambda t)$$

$$\frac{1}{1} + t = \frac{(\lambda + 1)^{n}}{n + 1} exp(-\lambda + 1)$$

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$$\frac{1}{1} + t = \frac{(\lambda + 1)^{n}}{(\lambda + 1)^{n}$$

$$= E(S_{n+1}) - E(S_n | N(t) = n)$$

$$= \frac{N+1}{\lambda} - \frac{N}{N+1} \cdot t$$

$$= \frac{1}{t^n} \int_0^t \frac{NS^{n+1}}{NS^n} dS$$

$$= \frac{1}{1 + t^{\infty}} \frac{1}{N = 0} \frac{(\lambda t)^n}{N + 1} \exp(-\lambda t)$$

$$= \frac{1}{1 + t^{\infty}} \frac{(\lambda t)^{n+1}}{N = 0} \exp(-\lambda t) = \frac{1}{1 + t^{\infty}} \frac{(\lambda t)^n}{N = 1 + t^{\infty}} \exp(-\lambda t)$$

$$= \frac{1}{1 + t^{\infty}} \frac{(\lambda t)^n}{N = 0} \exp(-\lambda t) = \frac{1}{1 + t^{\infty}} \exp(-\lambda t)$$

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