

$$\dots = \left| \begin{array}{l} x = \lambda \omega_d r^d \\ dx = \lambda \omega_d d r^{d-1} dr \end{array} \right. \quad d r = \frac{dx}{\lambda \omega_d d r^{d-1}} = \frac{dx}{\lambda \omega_d d} \cdot \left(r^{d-1} = \left(\frac{x}{\lambda \omega_d} \right)^{\frac{d-1}{d}} \right)$$

$$\dots = \int_0^\infty e^{-x} \frac{1}{\lambda \omega_d d} \cdot (\lambda \omega_d)^{\frac{d-1}{d}} \cdot x^{\frac{1}{d}-1} dx =$$

$$= \frac{1}{d} (\lambda \omega_d)^{\frac{1}{d}-1} \cdot \int_0^\infty x^{\frac{1}{d}-1} e^{-x} dx = \frac{1}{d} \cdot \frac{1}{(\lambda \omega_d)^{\frac{1}{d}}} \cdot \Gamma\left(\frac{1}{d}\right)$$

~~$\Gamma\left(\frac{1}{d}\right)$~~ $= \Gamma\left(\frac{1}{d}\right)$

~~$\frac{d}{d-1} \cdot \frac{d-1}{d-2} \cdot \dots \cdot \frac{2}{1} = \frac{d!}{(d-1)!}$~~

$$\Rightarrow CE = 1$$

$$G(r) = P_0^i \left(\sum \varphi \in \mathcal{N} : \varphi(b(\sigma, r)) > 0 \right) =$$

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$$= \mathbb{P} \left(\sum \varphi \in \mathcal{N} : \varphi(b(\sigma, r)) > 0 \right) = \mathbb{P}(\Phi(b(\sigma, r)) > 0) = F(r)$$

$$= 1 - e^{-\lambda \omega_d r^d}, \quad r \geq 0.$$

$$G(r) = F(r) \Rightarrow J(r) = \frac{1-G(r)}{1-F(r)} = 1, \quad r > 0.$$

