• f.g.m de
$$N(m, r^2)$$
 $M_{\frac{1}{2}}(f) = E(f^{\frac{1}{2}}) = \int_{\mathbb{R}} t^{\infty} f_{\frac{1}{2}}(x) dx$
 $= exp(\mu t + \sigma^2 f_{\frac{1}{2}})$

• $e \sim Y(m, d)$ $n + N^{\frac{1}{2}}$

Polar de la f.den. $f(x) = \frac{x^m}{R^m} x^{m-1} = \frac{x^m}{x^m}$
 $y = \int_{\mathbb{R}} (x) f(x) dy$
 $f(x) = \int_{\mathbb{R}} (x) f(x) dx$
 $f(x) = \int_{\mathbb{R}} (x) f(x)$

$$M=1$$

$$I_1 = \propto \int_0^{\infty} -xy \, dy = \left[-\frac{e^{-xy}}{e^{-xx}}\right]_0^{\infty}$$

$$= 1-e^{-xx}$$

$$F(x) = I_{m} = I_{m-1} - \alpha^{m} \int_{x}^{m-1} dx$$

$$= I_{1} - \int_{k=g}^{m-1} (\alpha x)^{\frac{k}{2}} e^{-\alpha x}$$

$$= I_{1} - \sum_{k=g}^{m-1} (\alpha x)^{\frac{k}{2}} e^{-\alpha x}$$

$$= I_{-\alpha} - \alpha x$$

$$= I_{-\alpha$$

$$f \cdot g \cdot m$$

$$M_{c}(\lambda) = H \left[e^{\lambda c} \right] = \int_{R} e^{\lambda x} f(x) dx = \left(\frac{\lambda}{\alpha - s} \right)^{R}$$

$$= \int_{S} e^{\lambda x} \frac{\lambda^{n}}{r(r)} \cdot x^{n-1} e^{-\lambda x} dx \qquad \left(\frac{\lambda}{\alpha - s} \right)^{\infty}$$

$$= \frac{\lambda^{n}}{r(r)} \cdot \int_{S} x^{n-1} e^{-(\lambda - s) \cdot x} dx$$

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$$M_{c}(x) = \frac{d}{dr}\left(\left(\frac{\lambda}{\lambda-s}\right)^{n}\right) = \frac{n \lambda^{n}}{(\lambda-s)^{n+1}}$$

$$I(c) = M_c(0) = \frac{\pi}{\alpha}$$

$$F(c) = M_c'(c) = \frac{\pi}{\alpha}$$

$$M_c'(s) = \frac{\pi(n+1)}{(\lambda-s)} \frac{\pi}{n+2}$$

$$\#(C^2) = \#_C^{(0)} = \#_C^{(n+1)}$$

$$\Rightarrow Van(C) = E(C^2) - E(C)^2$$

$$=\frac{r(n+1)}{\alpha^2}-\left(\frac{\Delta}{\alpha}\right)^2$$

$$e \mapsto \log N(\mu_1 \sigma^2) \implies h(c) \mapsto N(\mu_1 \sigma^2)$$

 $f \cdot d \cdot n$?

$$F(x) = P(C \le x) = P(h(C) \le h(x))$$

$$= \mathbb{P}\left(\frac{h(0)-\mu}{\sigma} \leq \frac{h(n)-\mu}{\sigma}\right)$$

$$\Rightarrow F(n) = \underbrace{\int \left(h(n) - \mu \right)}_{n}$$

on I et la f.d.r. de la lor normale contrée undute.

$$f(x) = f(x) = \frac{d}{dn} \left(\frac{d}{dx} \left(\frac{d}{dx} \left(\frac{d}{dx} \left(\frac{d}{dx} \left(\frac{d}{dx} \right) \right) \right) \right)$$

$$= \frac{1}{5 \times 10^{-1}} \left[\frac{1}{524} \left(\frac{\ln(2) - \mu}{5} \right)^{2} \right]$$

$$C \cap log Normale (\mu, \tau^2) \implies ln(c) \cap M(\mu, \tau^2)$$

$$f(c) = f(e^{ln(c)}) = M_c(ln(c))$$

$$= exp(\mu + \frac{\tau^2}{2})$$

$$E(c^{2}) = E(e^{h(c^{2})}) = M_{c}(2h(c))$$

$$V(c) = e^{2\mu + \frac{4}{5}c^{2}} - (e^{\mu + \frac{4}{2}c^{2}})^{2}$$

$$= e^{2\mu + \frac{4}{5}c^{2}} (e^{\sigma^{2}} - 1)$$

C M Panto (
$$\chi_0, \alpha$$
)

 $F(x) = 1 - \left(\frac{\chi_0}{\chi}\right)^{\alpha}$
 $f(x) = F'(x) = \chi_0^{\alpha}$
 $\chi_0 = \chi_0$

$$F(c) = \int_{X_0}^{\infty} \frac{dx}{dx} dx = \frac{1}{2} \frac{$$

Actuaire:
Base de donneres » colébrage des paramètes % et d

pour representer ou mieu les sinistres
Modelisation du cont des sinistres (différentes lois)