

Inverse of COT for Full-Tail-Gamma (FTG) Distribution

COT

$$\pm(x) = \underbrace{\gamma - \underbrace{\gamma(x + \theta \cdot x)}_z}_{f(z)} = u$$

$$\Rightarrow \underbrace{\gamma - u}_b = \gamma(x + \theta \cdot x) = \underbrace{\gamma(z)}_{f(z)}$$

$$b = \gamma(z) = \underbrace{\gamma(z)}_{f(z)}$$

$$\Rightarrow z = \gamma^{-1}(b)$$

$$\Rightarrow z = \gamma^{-1}(f, b) \quad | \text{re-substitution}$$

$$\int + \theta \cdot x = \gamma^{-1}(f, \gamma - u)$$

$$\gamma^{-1}(u) + \theta = \frac{\theta}{f - (\gamma - u) - f} = x$$

$$H = \frac{2x}{1-x} \quad \text{b) } H = \frac{2}{(x-y)^2} \quad \text{c) } \frac{1}{1-x}$$

2. binomische Formel

$$H^2 = \left(\frac{2x}{1-x} \right)^2 = \frac{4x^2}{(1-x)^2} \quad \text{d) } H^2 = \frac{4}{(1-x)^2}$$

$$H^2 = \frac{4x^2}{1 - 2x + x^2} \quad \text{e) } H^2 = \frac{4}{1 - 2x + x^2}$$

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$$H = \frac{2x}{1-x} \quad \text{f) } H = \frac{2}{1-x}$$

$$H = \frac{2x}{1-x} = \frac{2x}{1-x} \quad \text{g) } H = \frac{2}{1-x}$$

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Pythagoras: $a^2 + b^2 = c^2$

