LIFE ANNUITY FACTORS

$$\bar{a}_x(t) = \int_0^\infty {}_sp_x(t)v(s,t)ds$$

LIFE ANNUITY FACTORS

$$\underbrace{e^{-\int_0^s \mu(x+y,t)dy}}_{\text{mortality}}$$

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$$\underbrace{e^{-\int_0^s \mu(x+y,t)dy}}_{\text{mortality}} \quad \underbrace{e^{-\int_0^s \delta(y,t)dy}}_{\text{interest}}$$

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LIFE ANNUITY FACTORS

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$$\bar{a}_x(t) = \int_0^\infty {}_sp_x(t)\,v(s,t)\,ds$$

$$\dot{\bar{a}}_x(t) = \frac{\partial \bar{a}_x(t)}{\partial t}$$