CKMR model equations

# Where,

Y = # matches (half siblings)

a = older birth year,

b = younger birth year,

φ = year of estimation (arbitrary),

Nb = number of females in birth year b,

λ(b – φ) = population growth between year of estimation and birth year b,

ϕ (b-a) = annual survival from birth year a (older) to birth year b (younger),

R = total number of comparisons between individuals born in year a and individuals born in year b.

SD2 = var

Tau = 1/var

Var = 1/Tau

SD = sqrt(var)