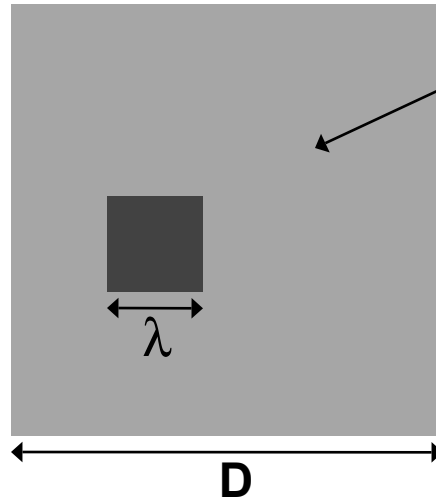


“Back of the envelope” calculation of effect of spacial correlation on uncertainty estimates



area of significant reserves

λ = dominant spacial correlation length
(can be obtained from variogram)

σ_λ = standard deviation with spacial
correlation length of λ

$f_\lambda(\text{NS})$ = net sand distribution with
correlation length of λ

it is assumed that f_λ is log normal and $\sigma_\lambda = (\lambda / D) \sigma_\infty$

$$f_\lambda(\text{NS}) = f_\infty(10^{[(D/\lambda) [\log(\text{NS}) - \log(\text{NS}_{P50})] + \log(\text{NS}_{P50})]})$$