Are heterogeneities significant or not?



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Observe heterogeneity

Consider fluid, sensitivity

Critical permeability contrast

3 orders 2 orders 1 order

Fluid fill dry wet gas light heavy oil

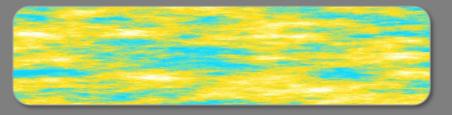


Significant?

Ignore

No

Yes



Consider length scales (LS)



 $H \approx Q$

Explicitly model

Compare
heterogeneity LS
(H) with question LS
(Q)

H << Q

Implicitly average