Equilibrium distribution of the liquid phase in an unsaturated granular material
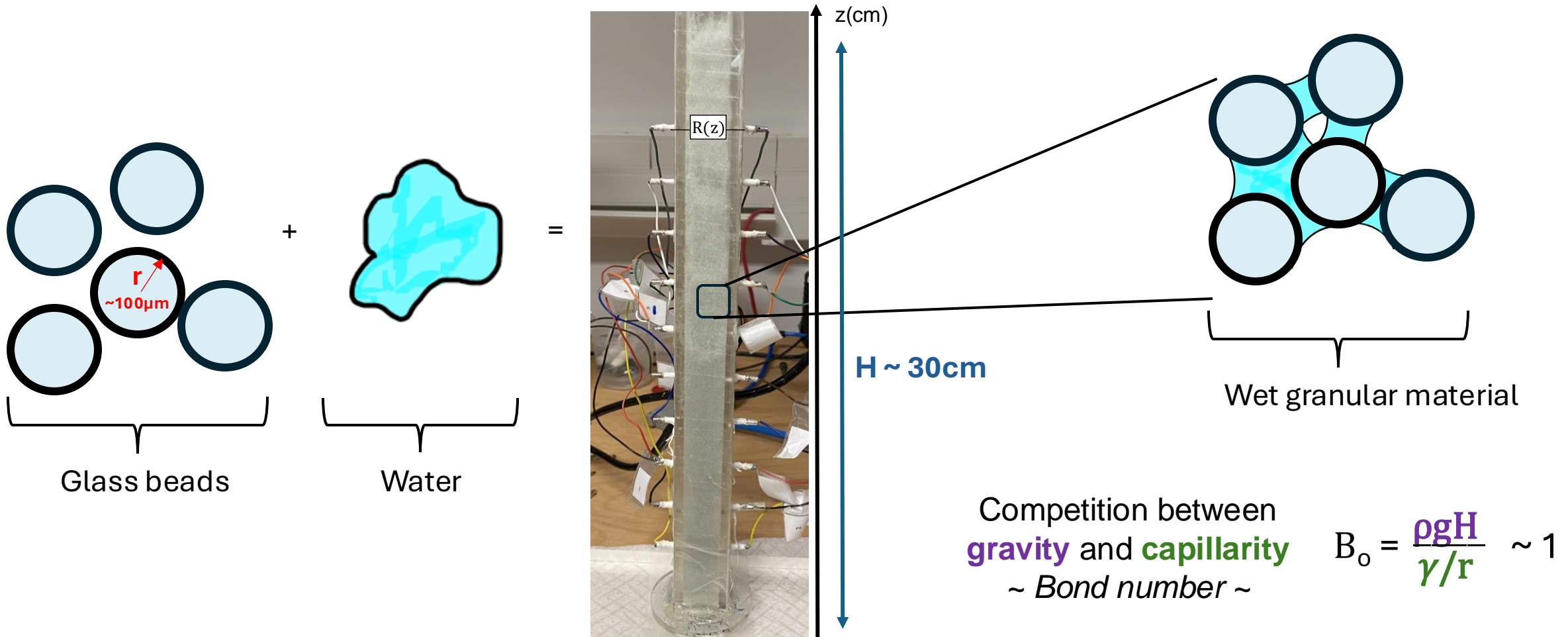
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$z(cm)$

R(z)

$H \sim 30cm$

Wet granular material

Glass beads

r
~100μm

Water

Competition between
gravity and **capillarity**
~ Bond number ~

$$B_o = \frac{\rho g H}{\gamma / r} \sim 1$$

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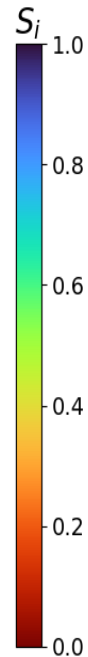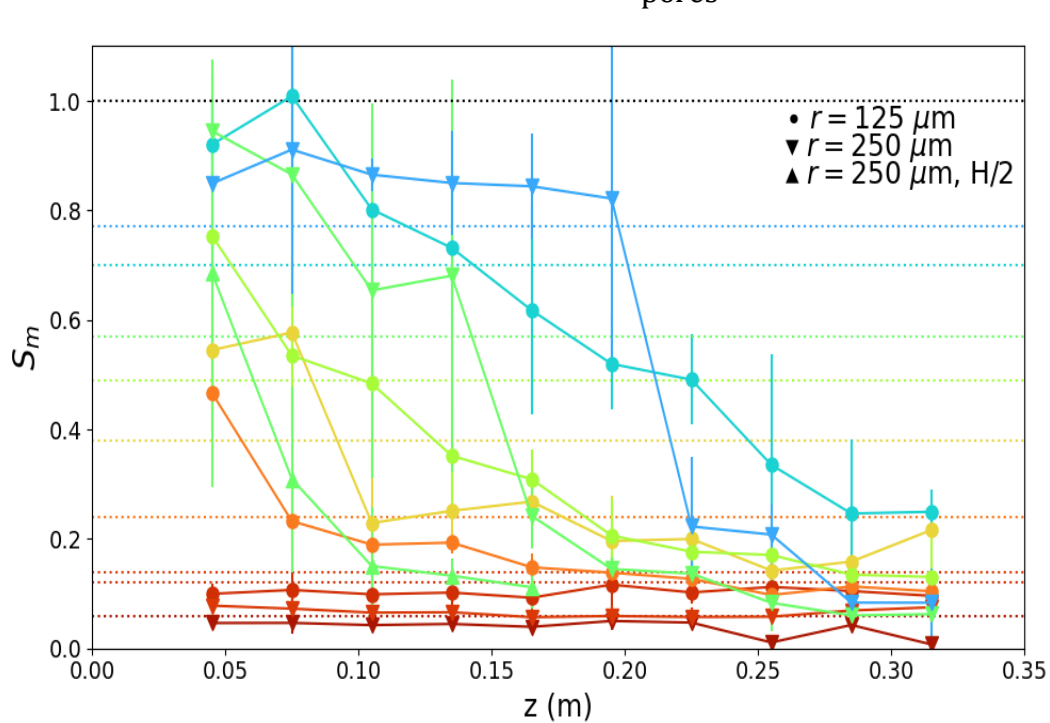
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Degree of saturation : $S_m = \dfrac{V_{liq}}{V_{pores}}$