

Computed Tomography 3D Super-Resolution with Generative Adversarial Neural Networks: Implications on Unsaturated and Two-Phase Fluid Flow

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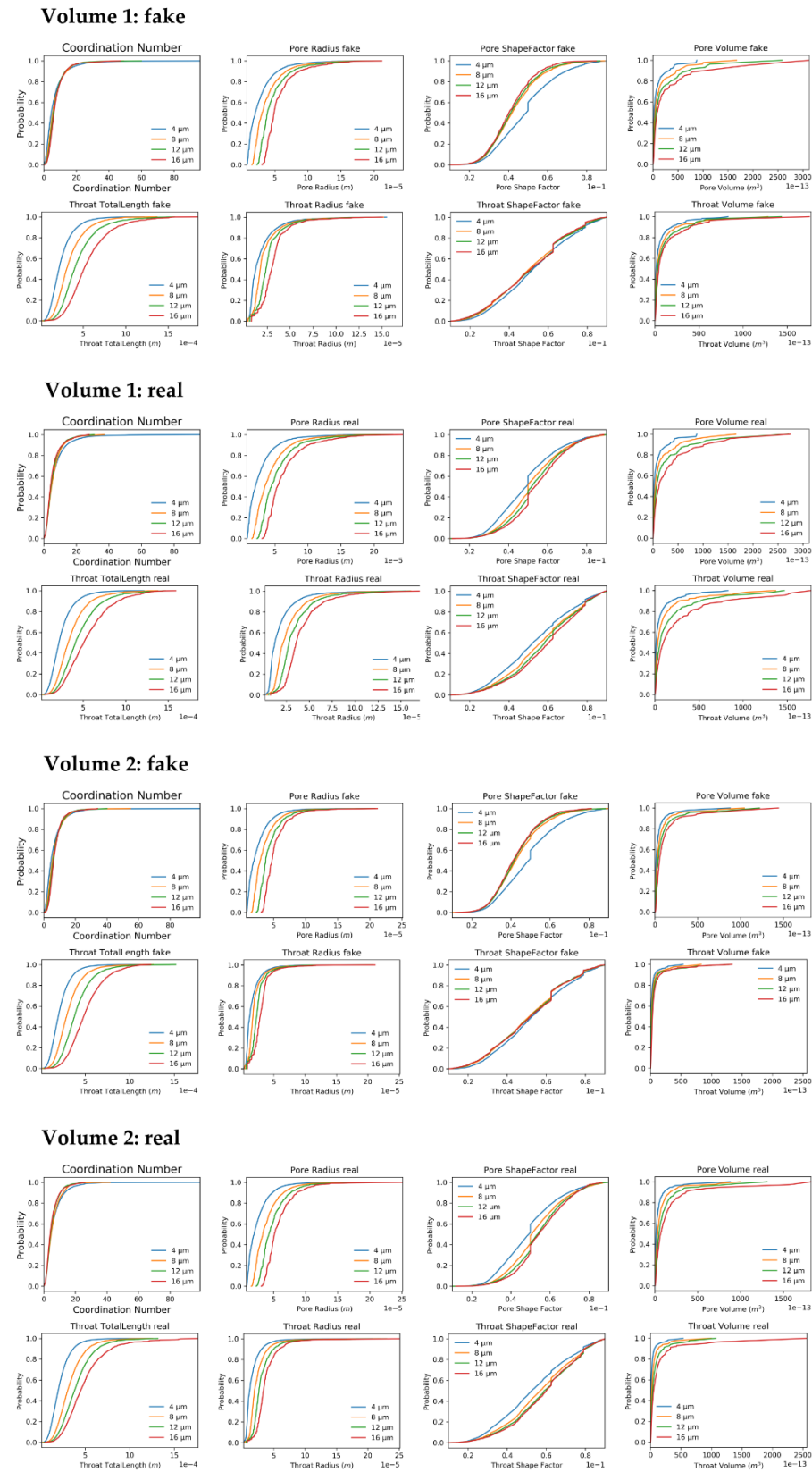


Figure S1: Pore network properties for influence of resolution.

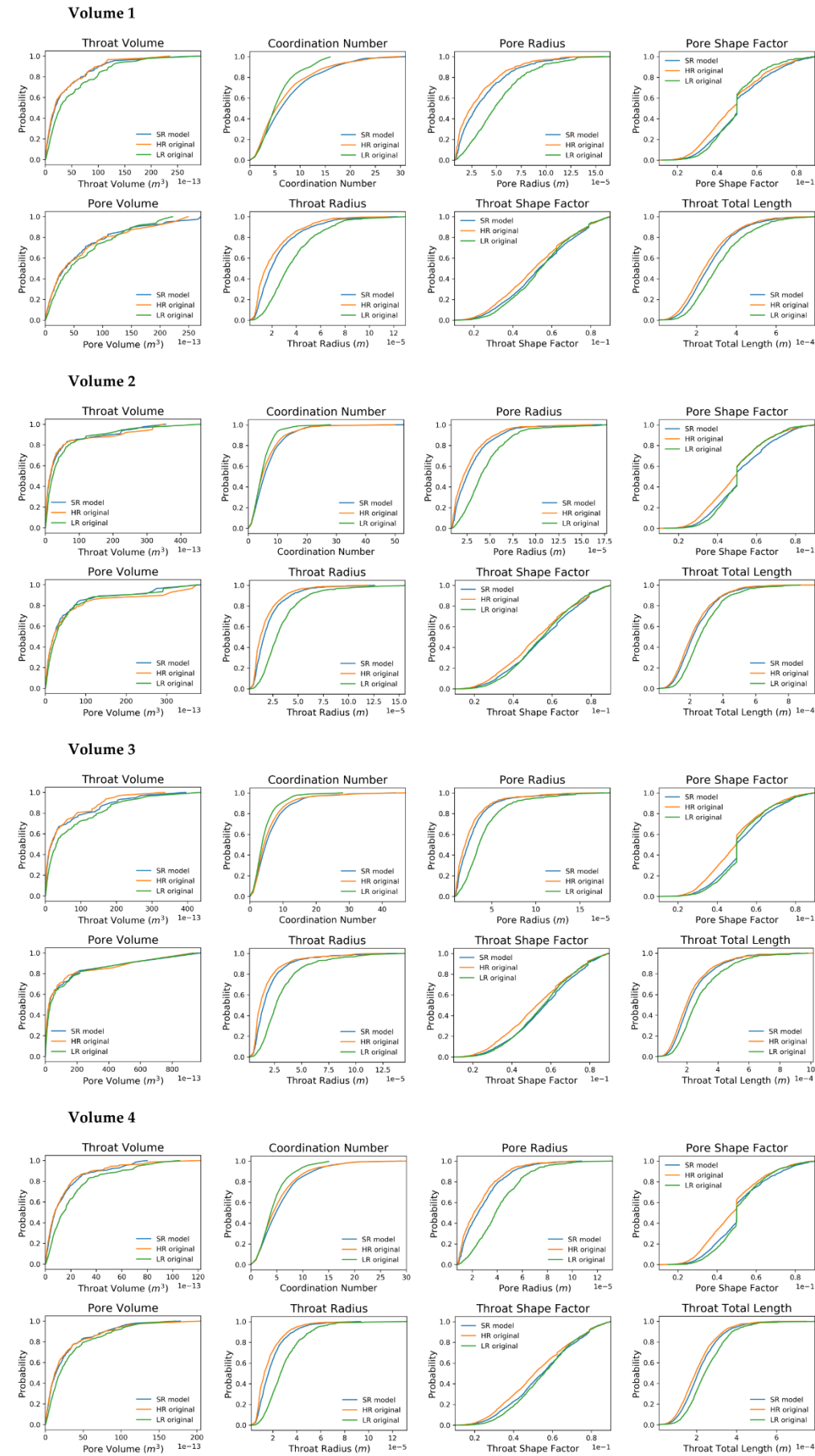
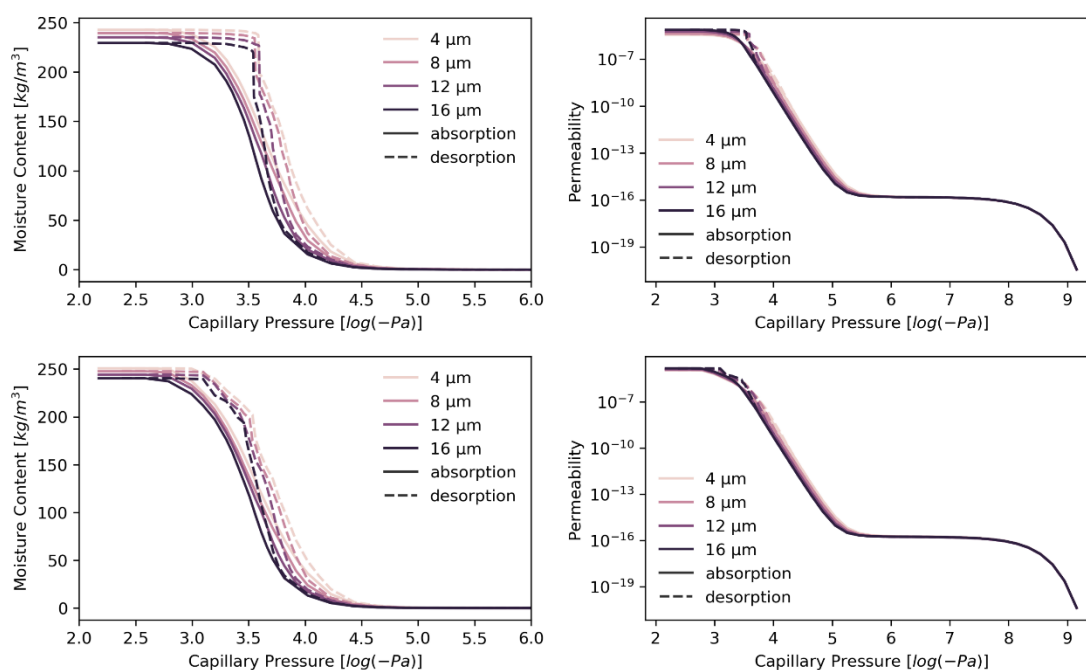


Figure S2: Pore network properties for super-resolution model validation.

Resolution reduction

Artificial

Volume 1



Mechanical

Volume 2

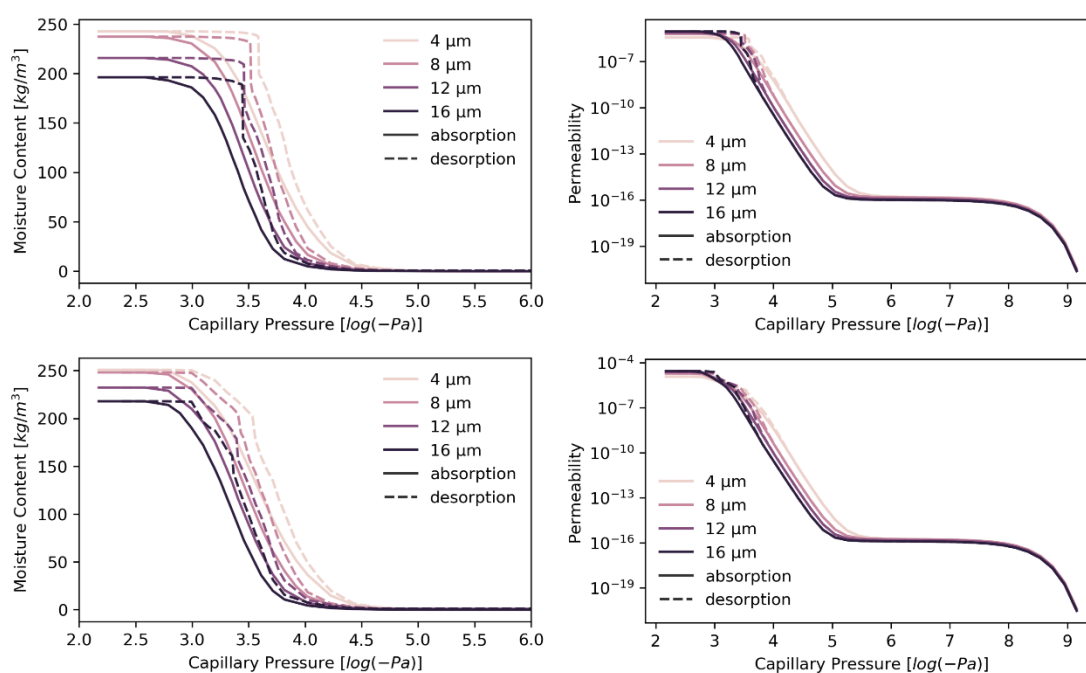


Figure S3: Influence of resolution on unsaturated fluid flow.

Model validation

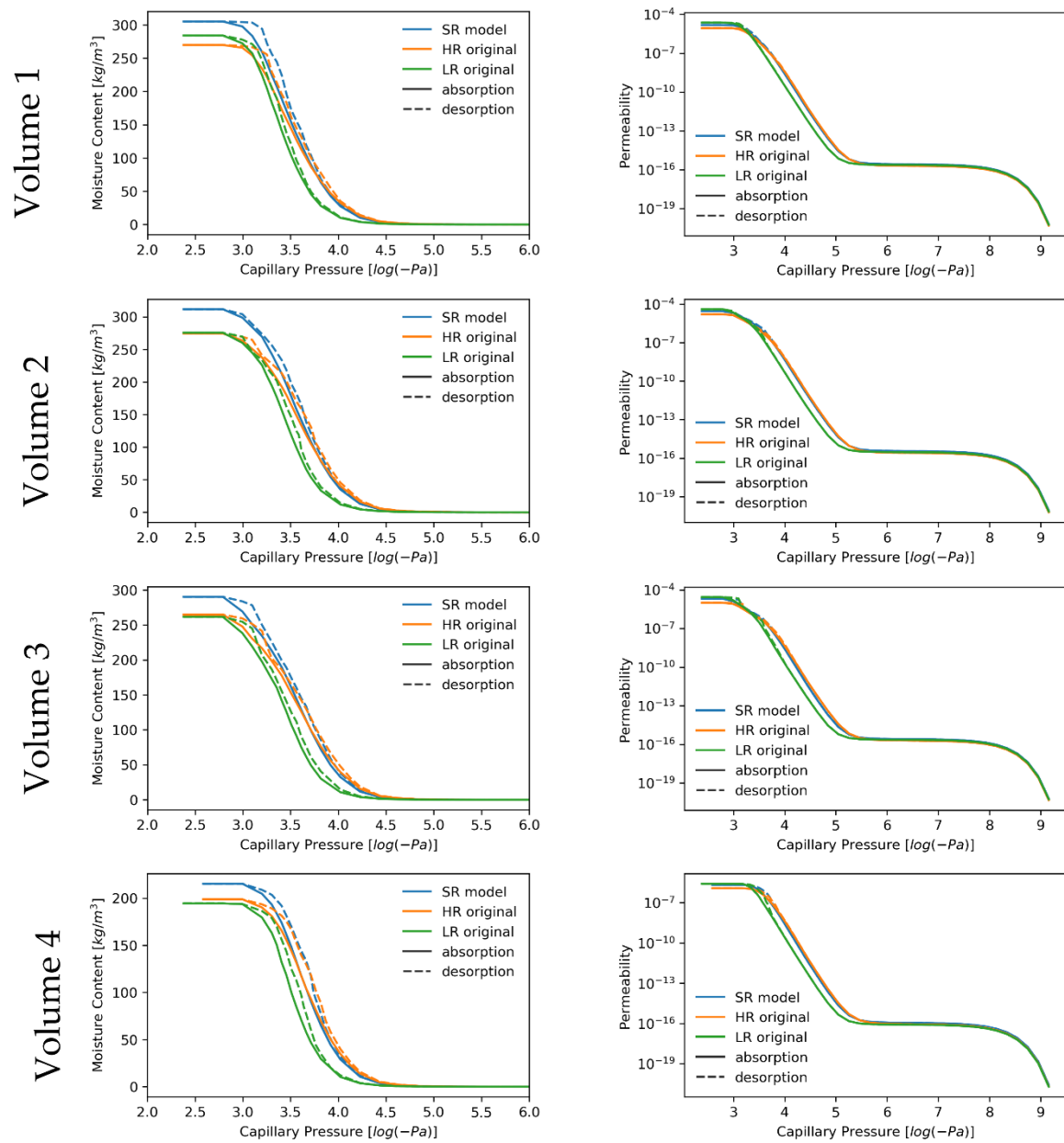


Figure S4: Super-resolution model validation for unsaturated fluid flow.

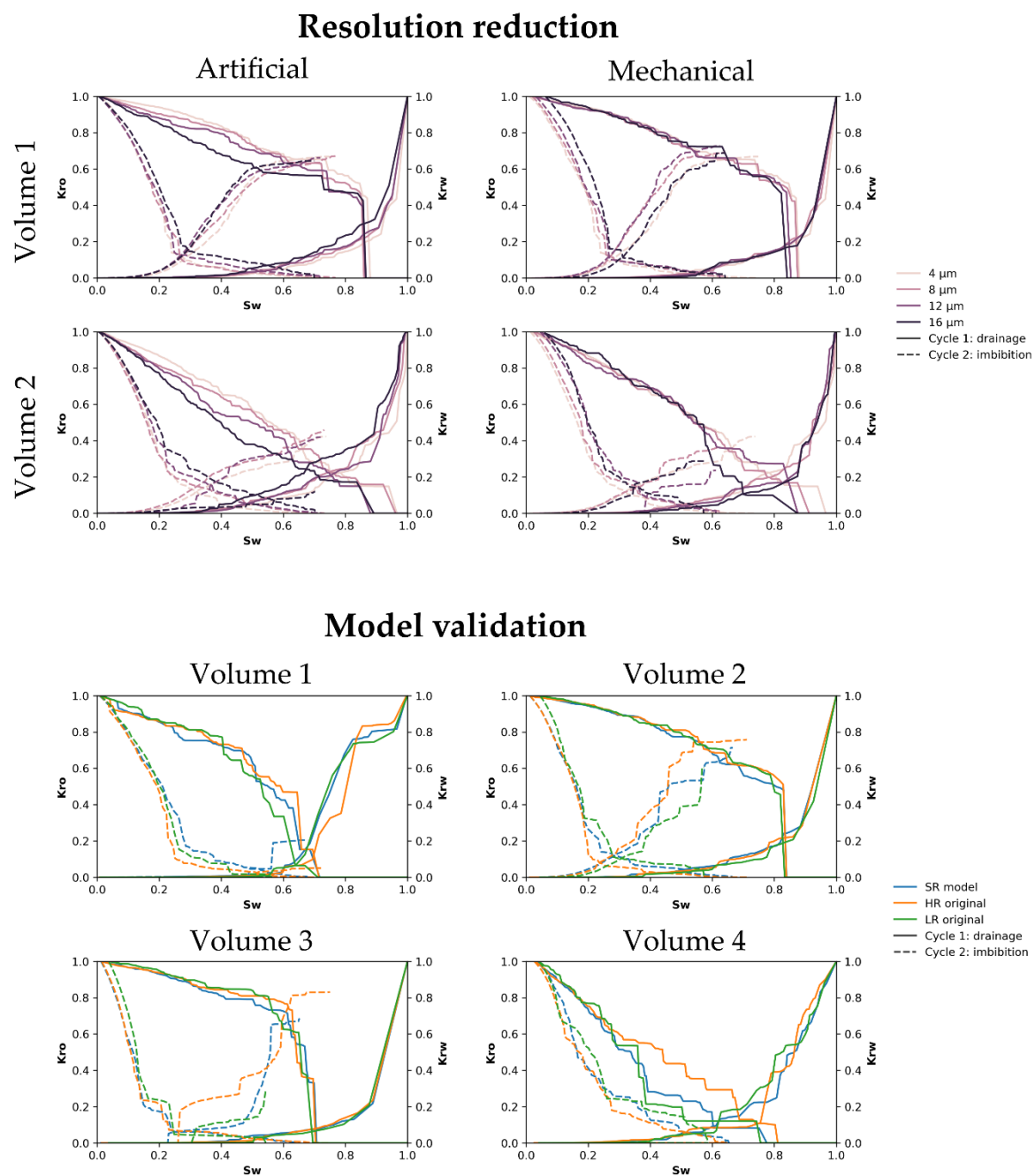


Figure S5: Influence of resolution and super-resolution models on two-phase flow models.