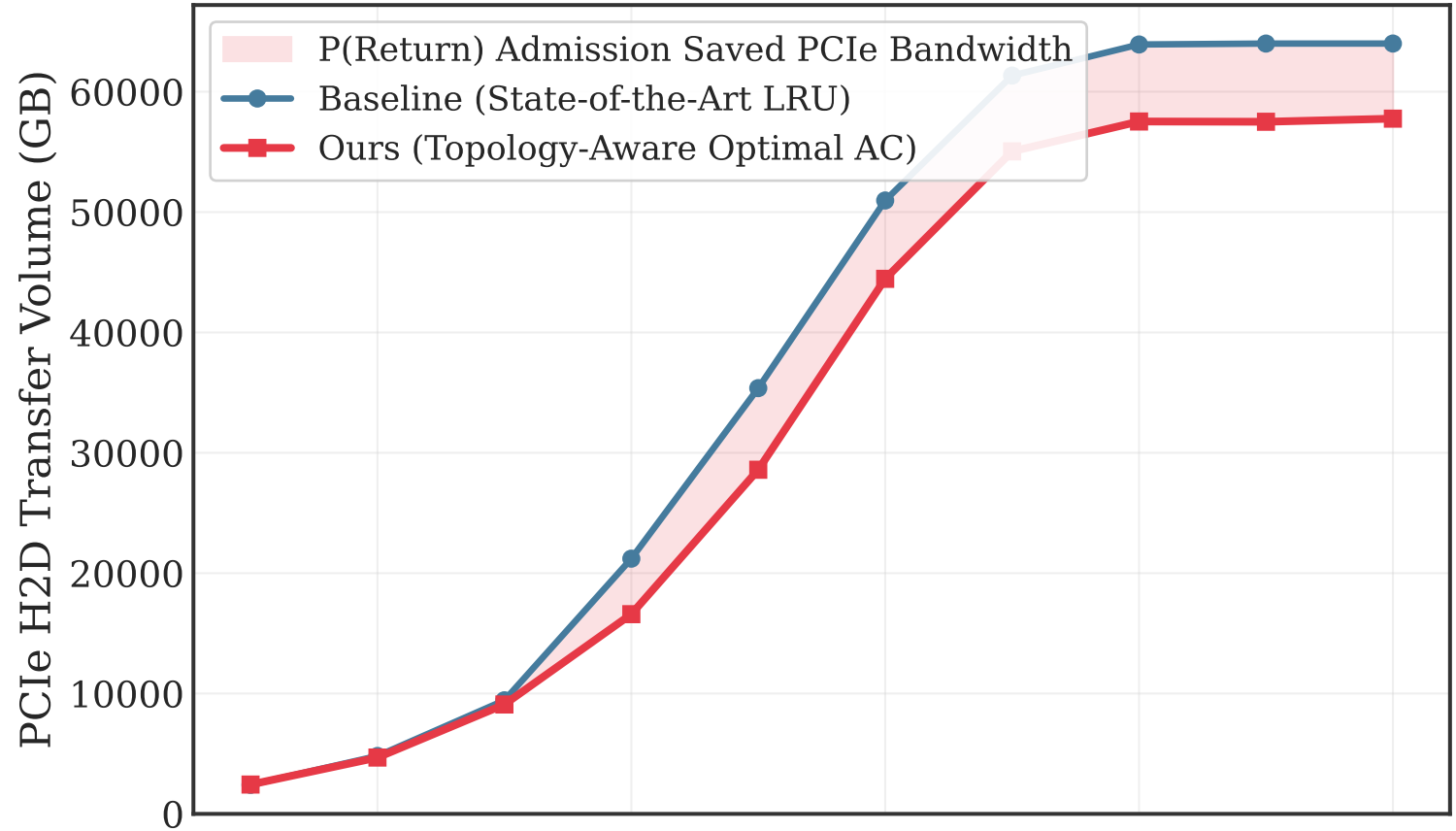
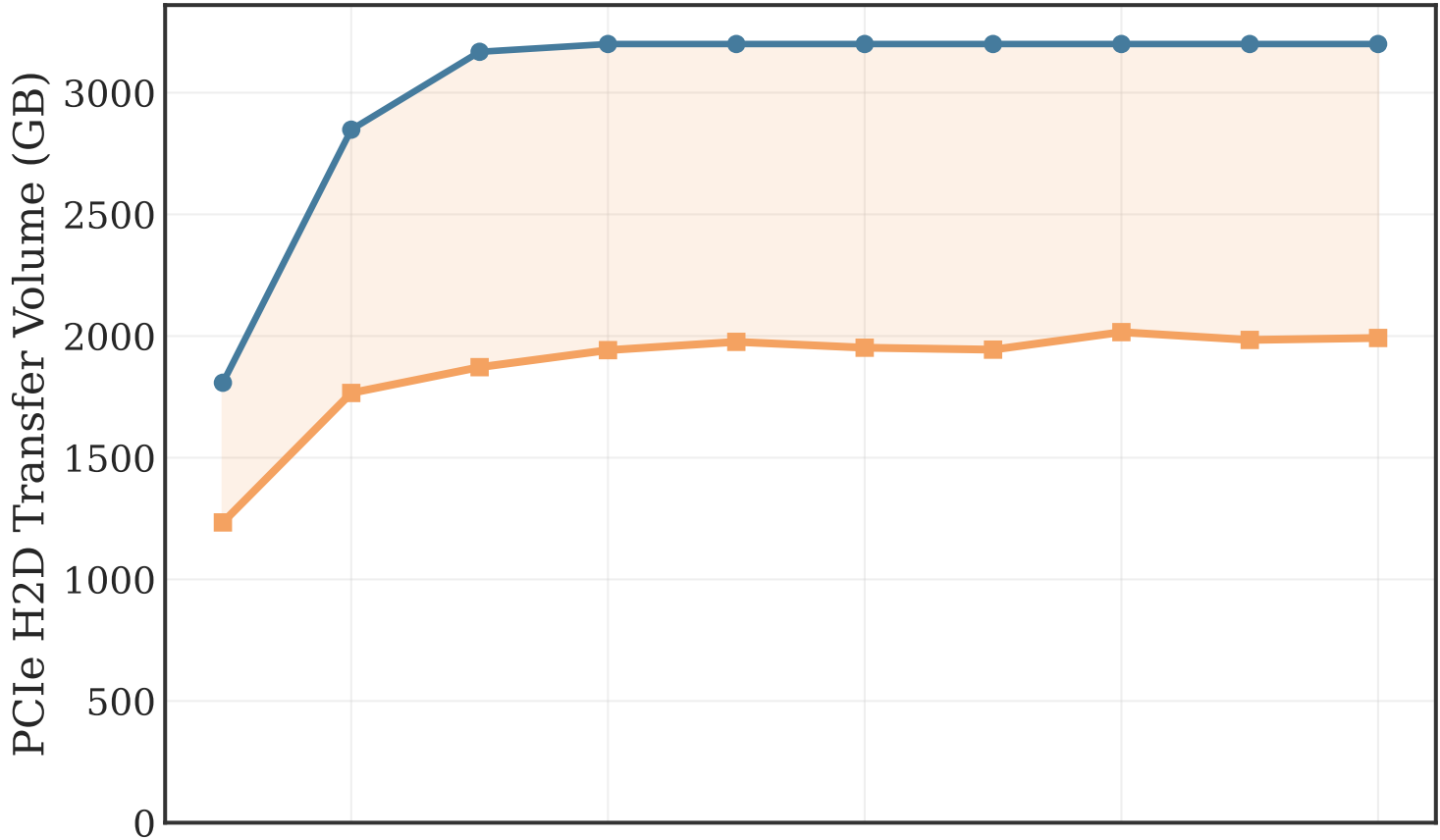


# Phase Transitions in MoE Inference: Spectral Gap Regime vs. PCIe Bandwidth Collapse

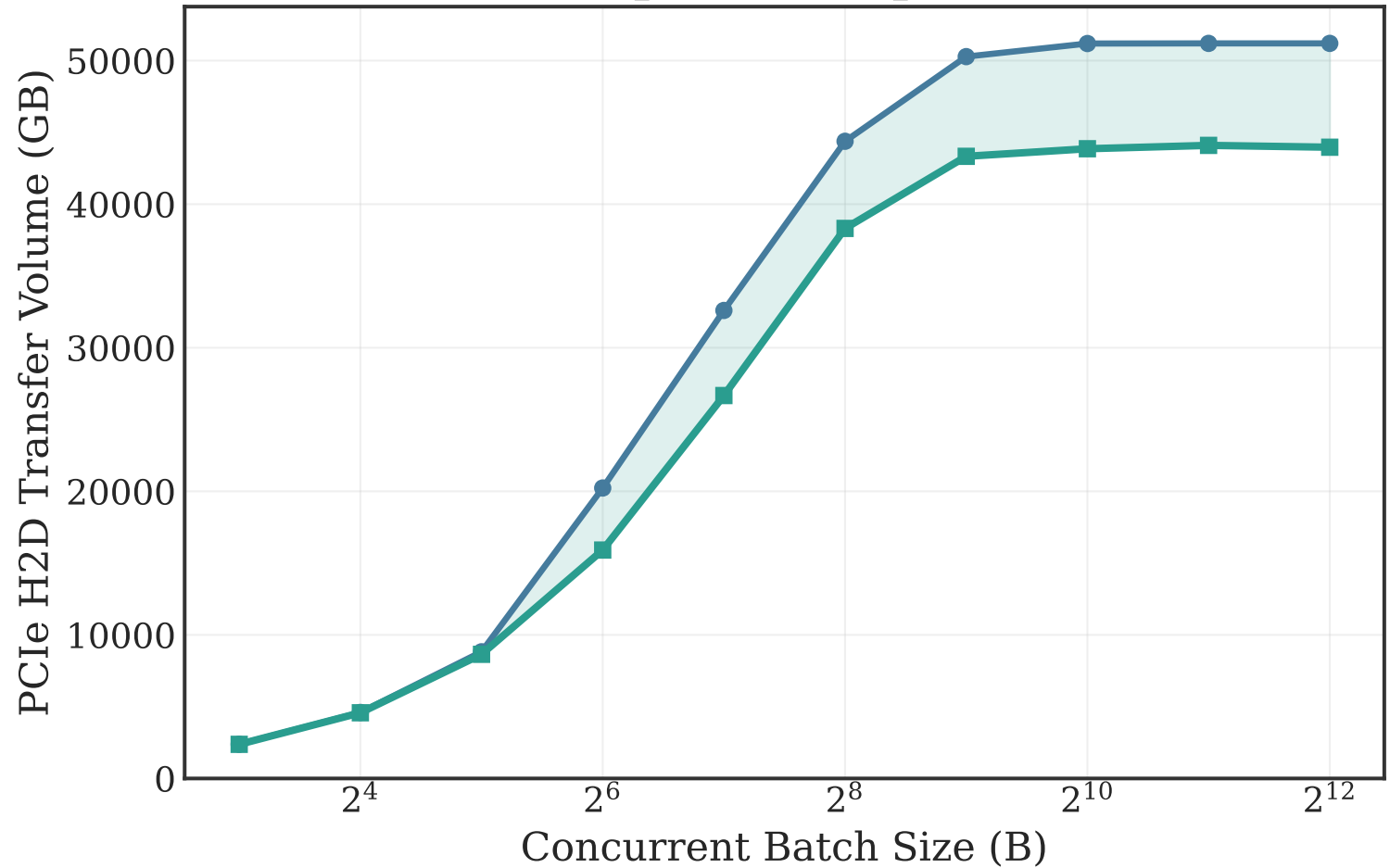
## DeepSeek (Spectral Gap $\delta = 0.925$ )



## Mixtral (Spectral Gap $\delta = 0.858$ )



## Switch (Spectral Gap $\delta = 0.583$ )



## Qwen (Spectral Gap $\delta = 0.497$ )

