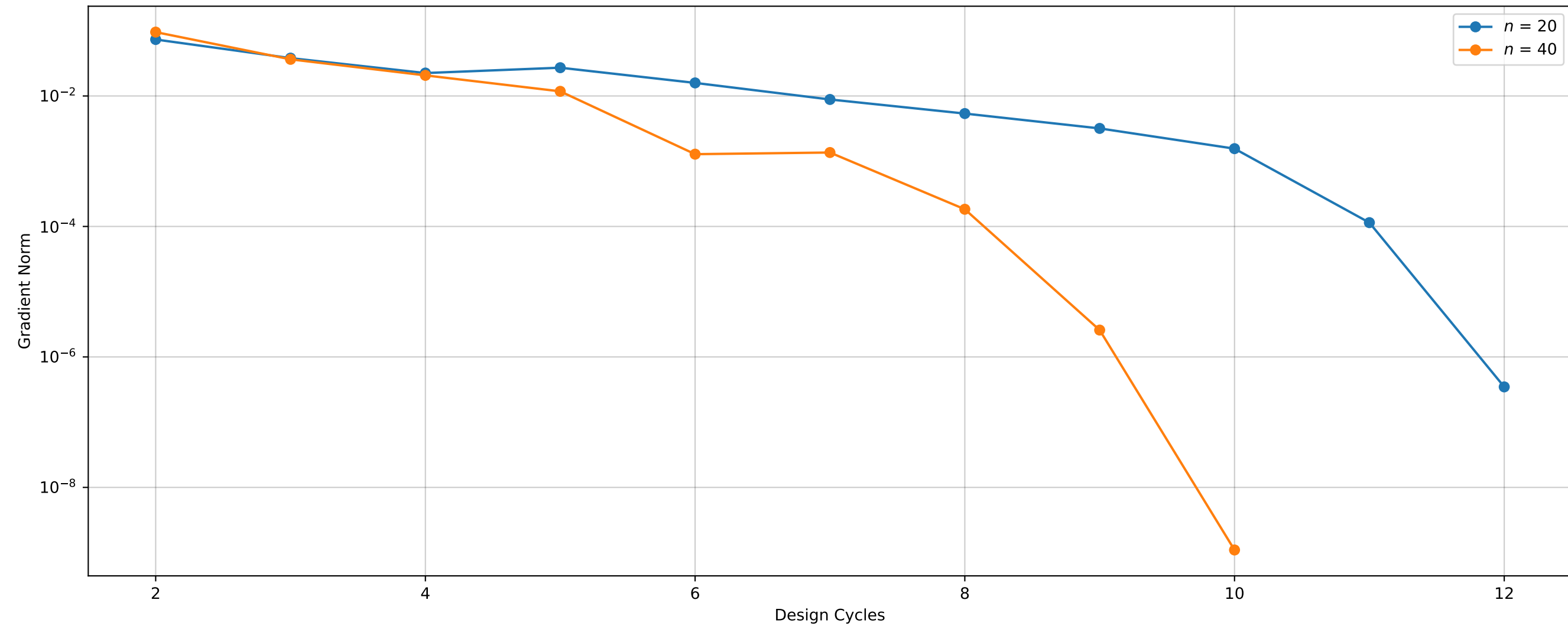
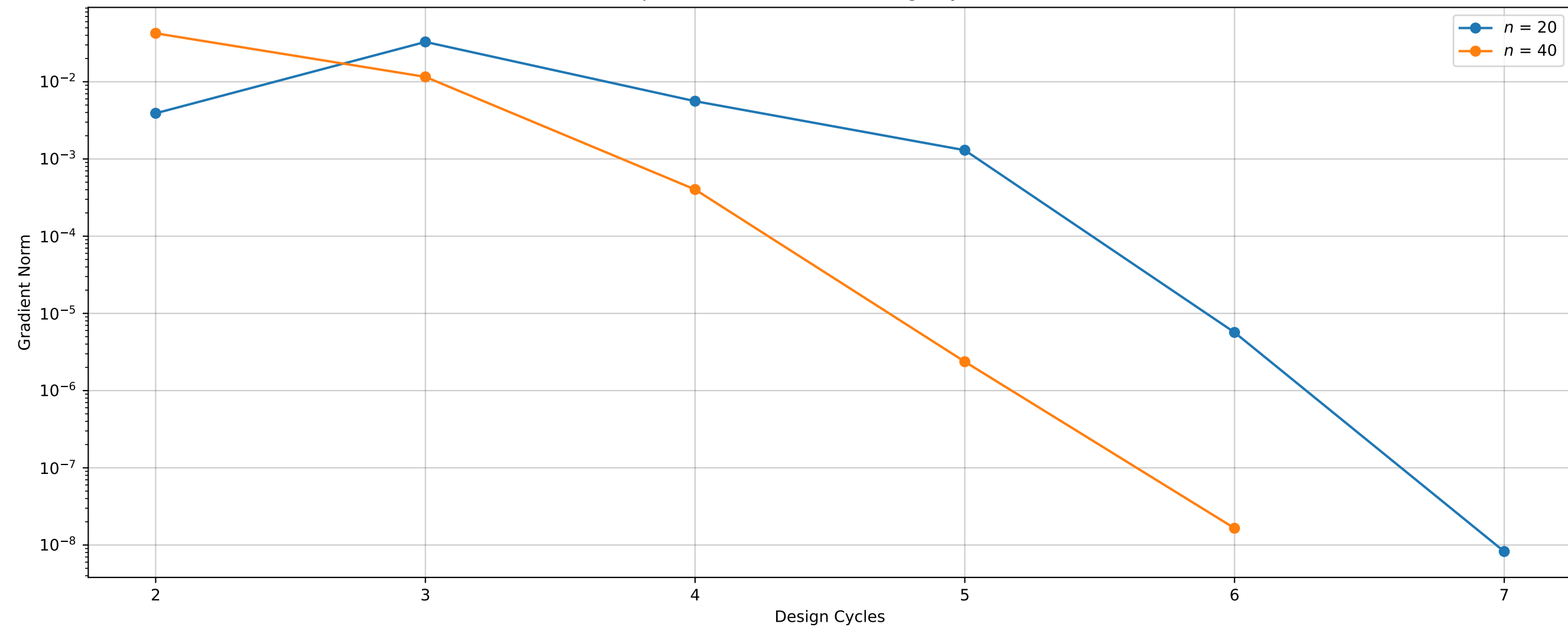


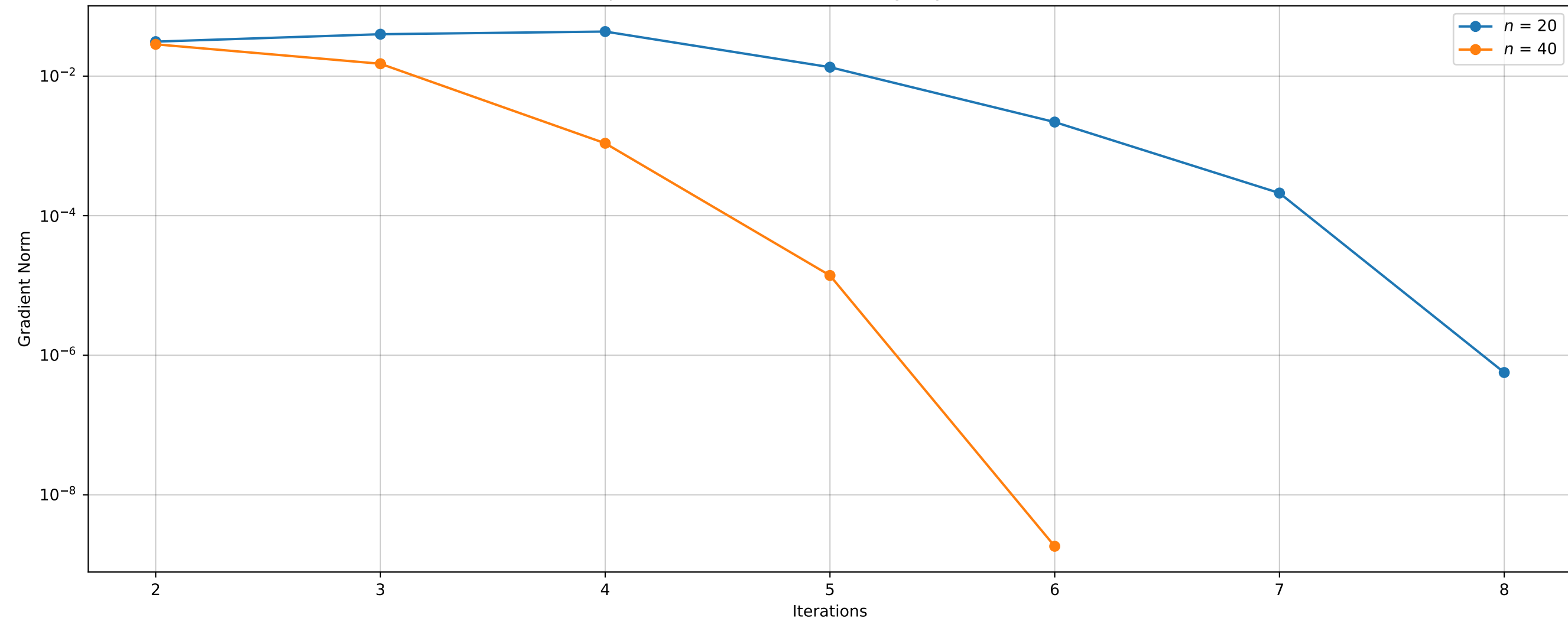
Reduced-space BFGS Gradient vs Design Cycles, $m = 11184$



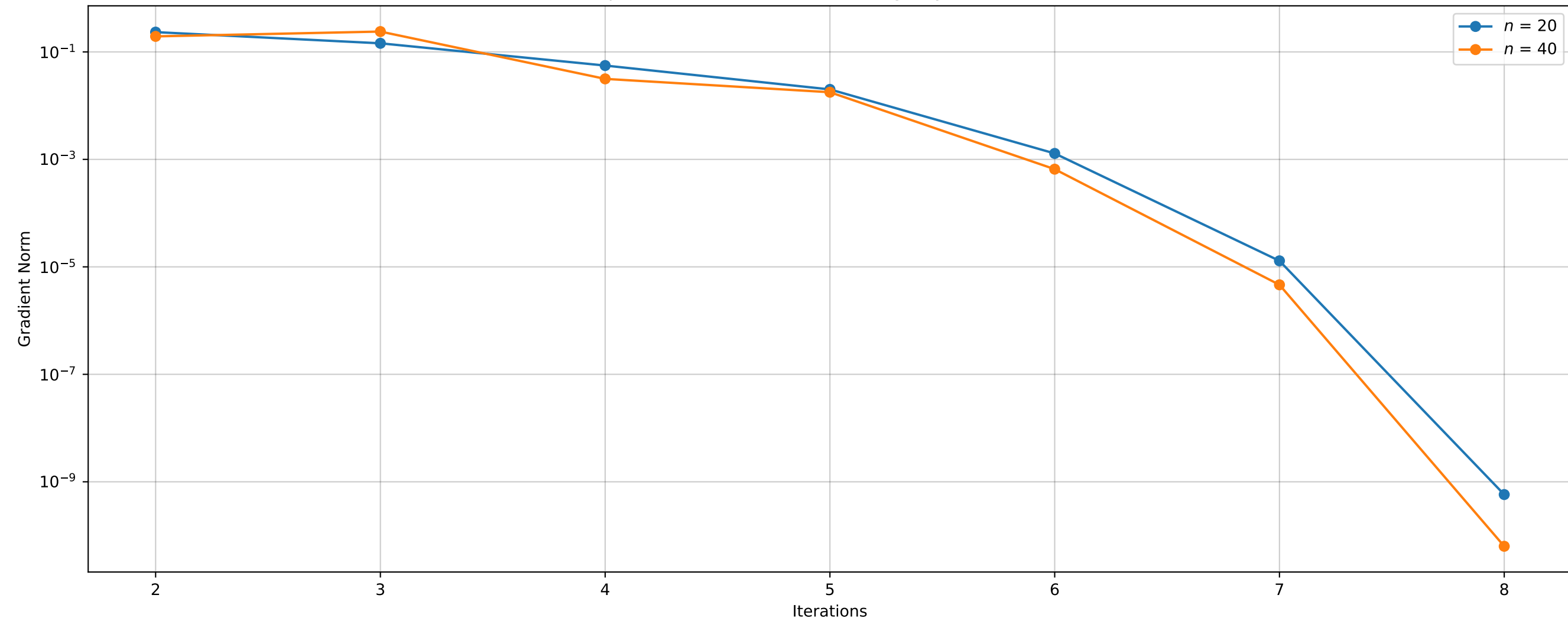
Reduced-space BFGS Gradient vs Design Cycles, $m = 44736$

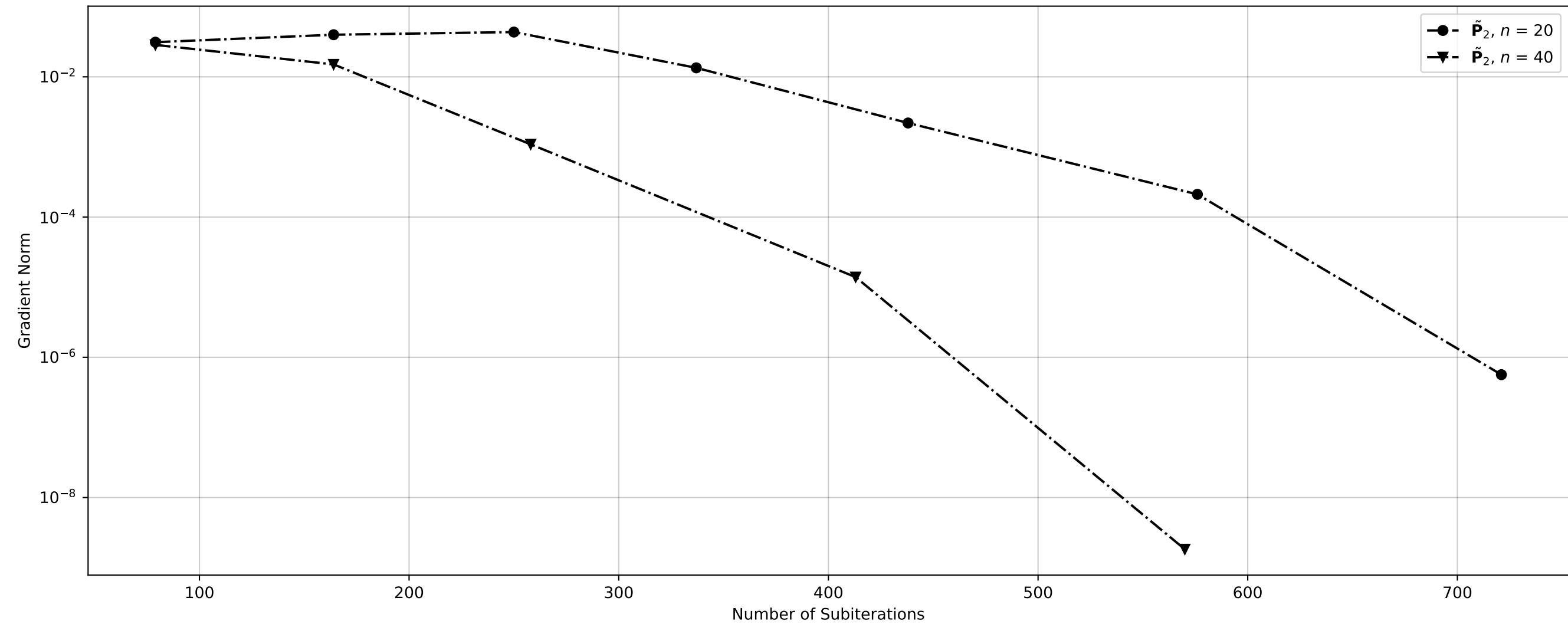


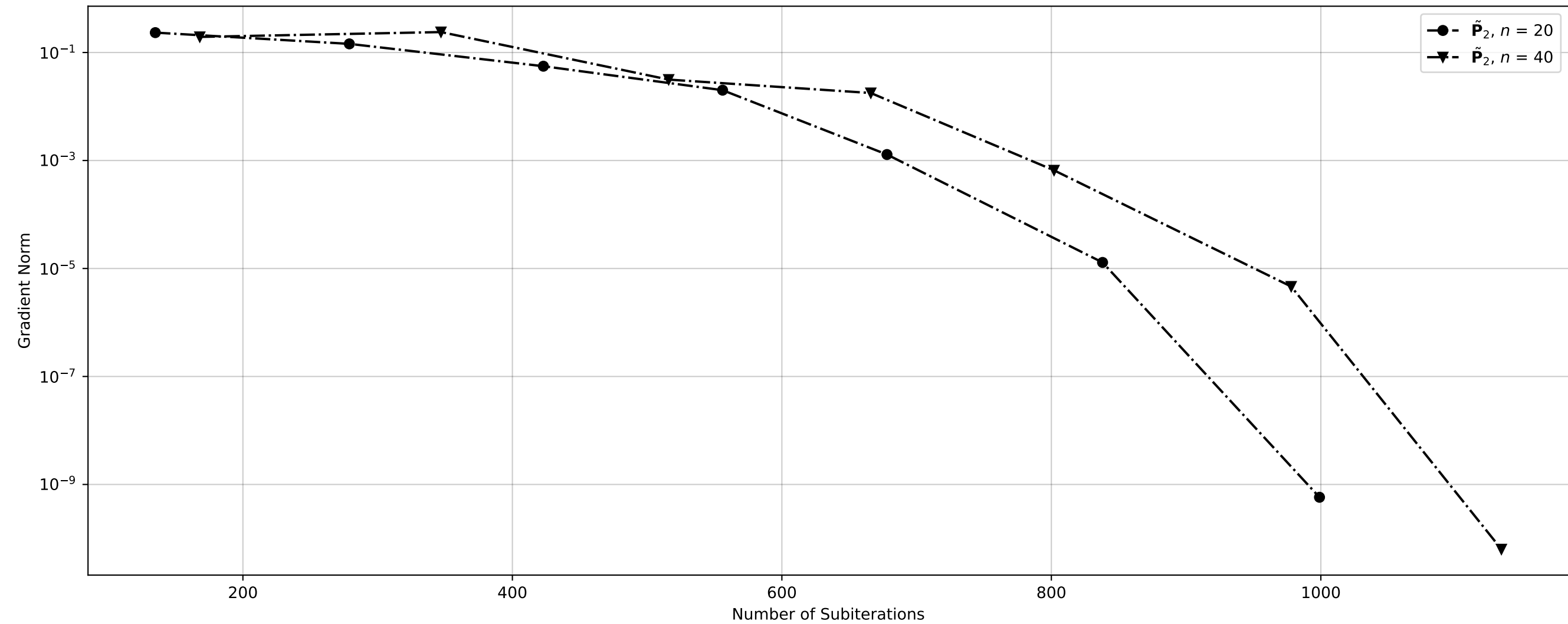
Full-space with $\tilde{\mathbf{P}}_2$ Gradient vs Design Cycles, $m = 11184$



Full-space with $\tilde{\mathbf{P}}_2$ Gradient vs Design Cycles, $m = 44736$

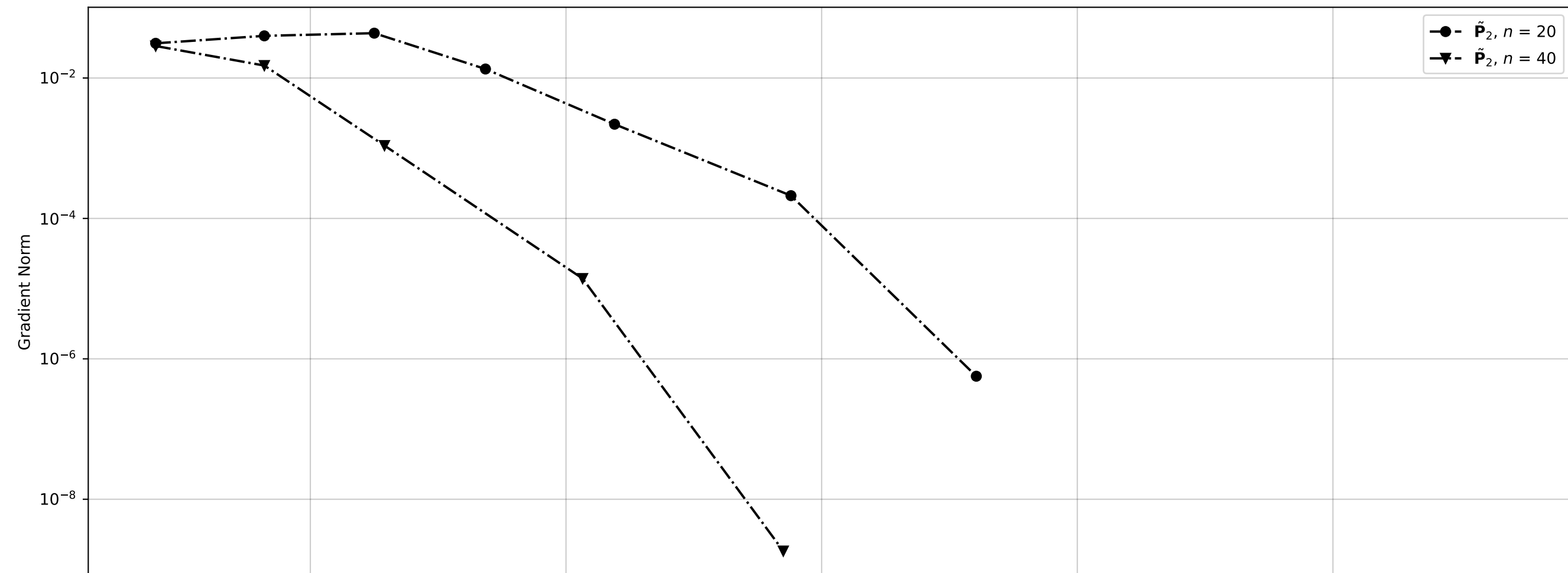


Full-space Gradient vs Subiterations, $m = 11184$ 

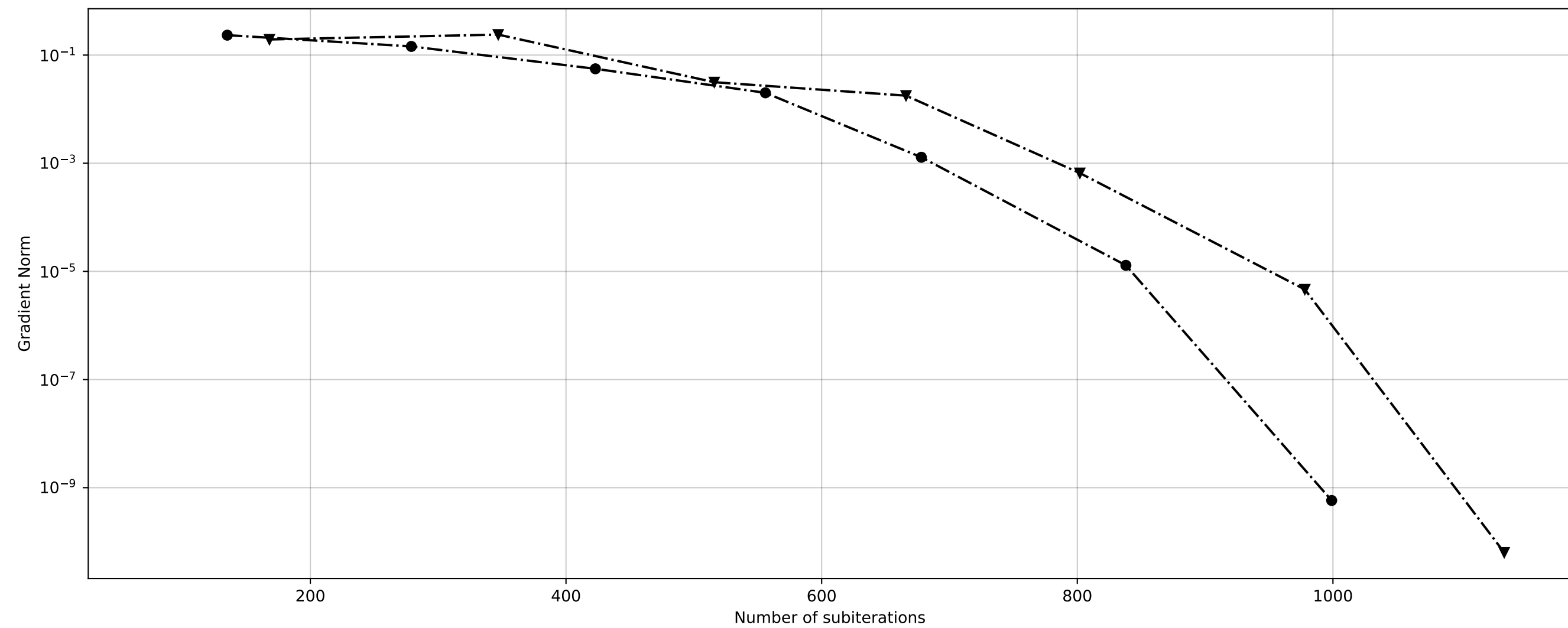
Full-space Gradient vs Subiterations, $m = 44736$ 

Full-space Gradient vs Subiterations

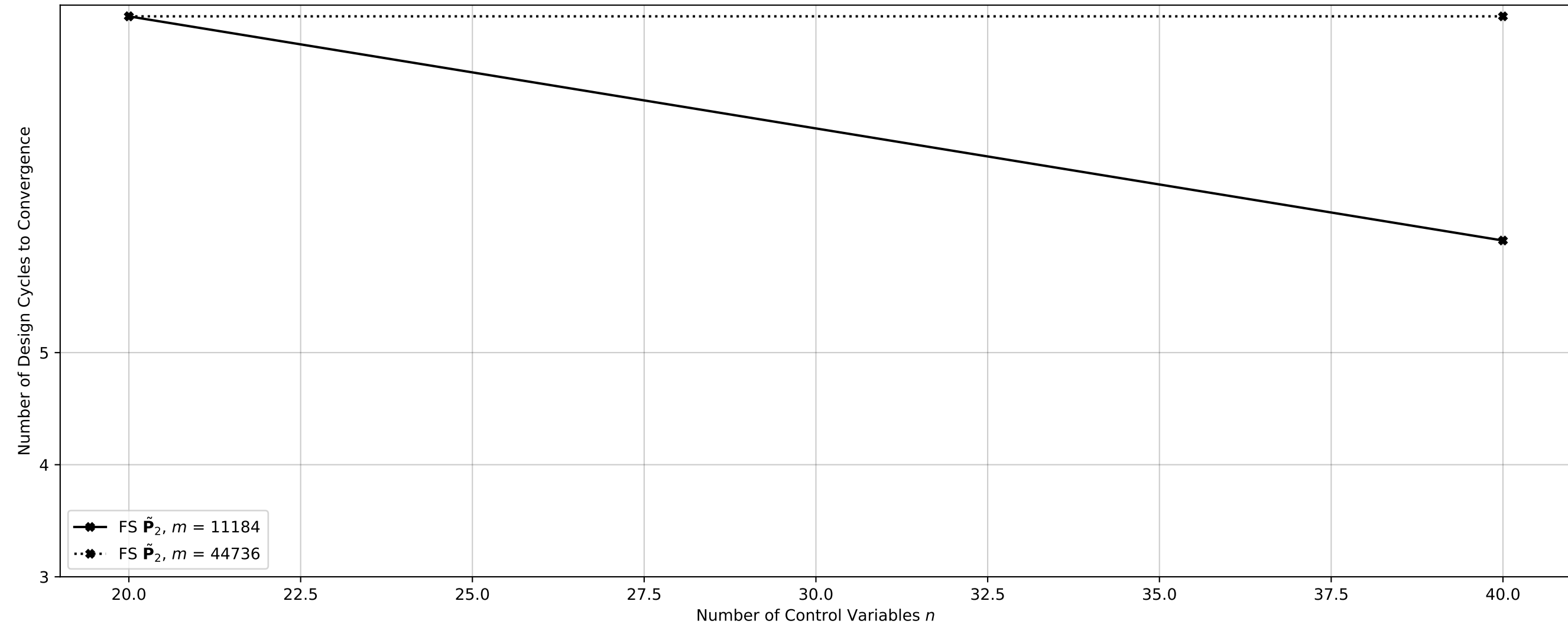
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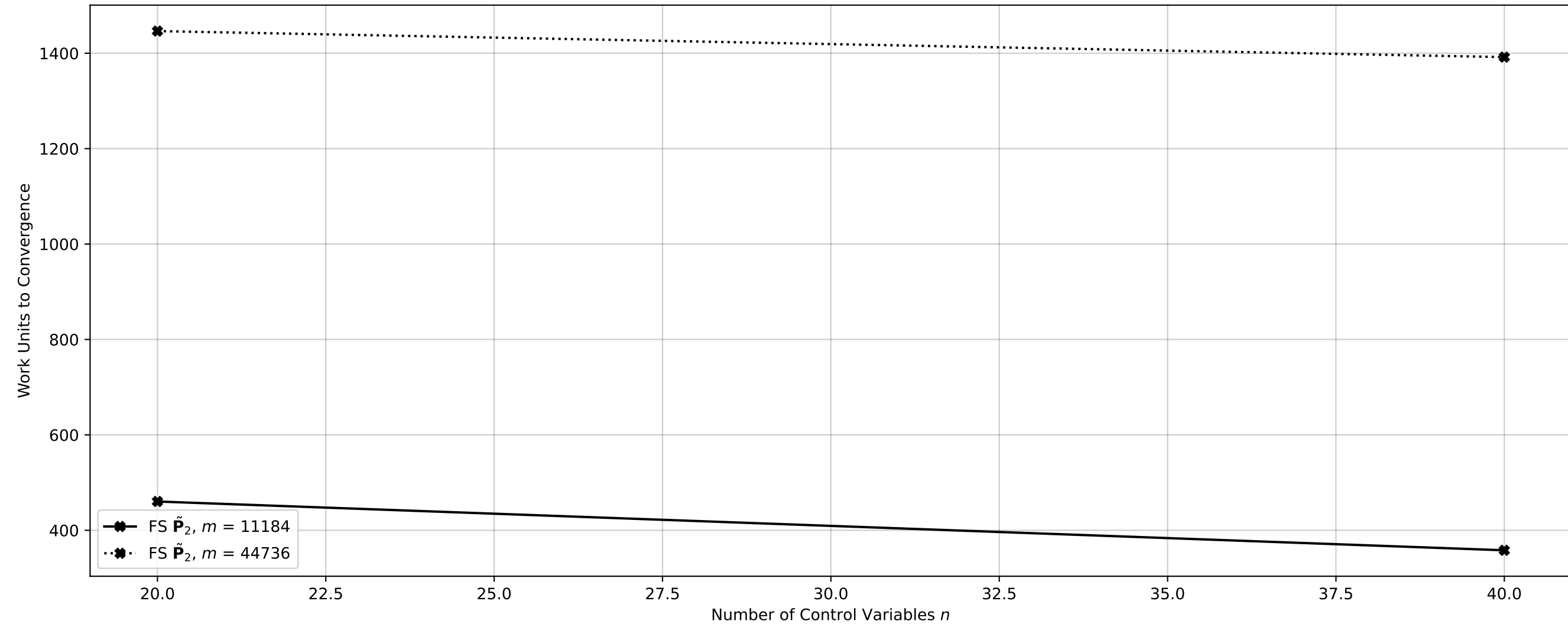
$m = 44736$



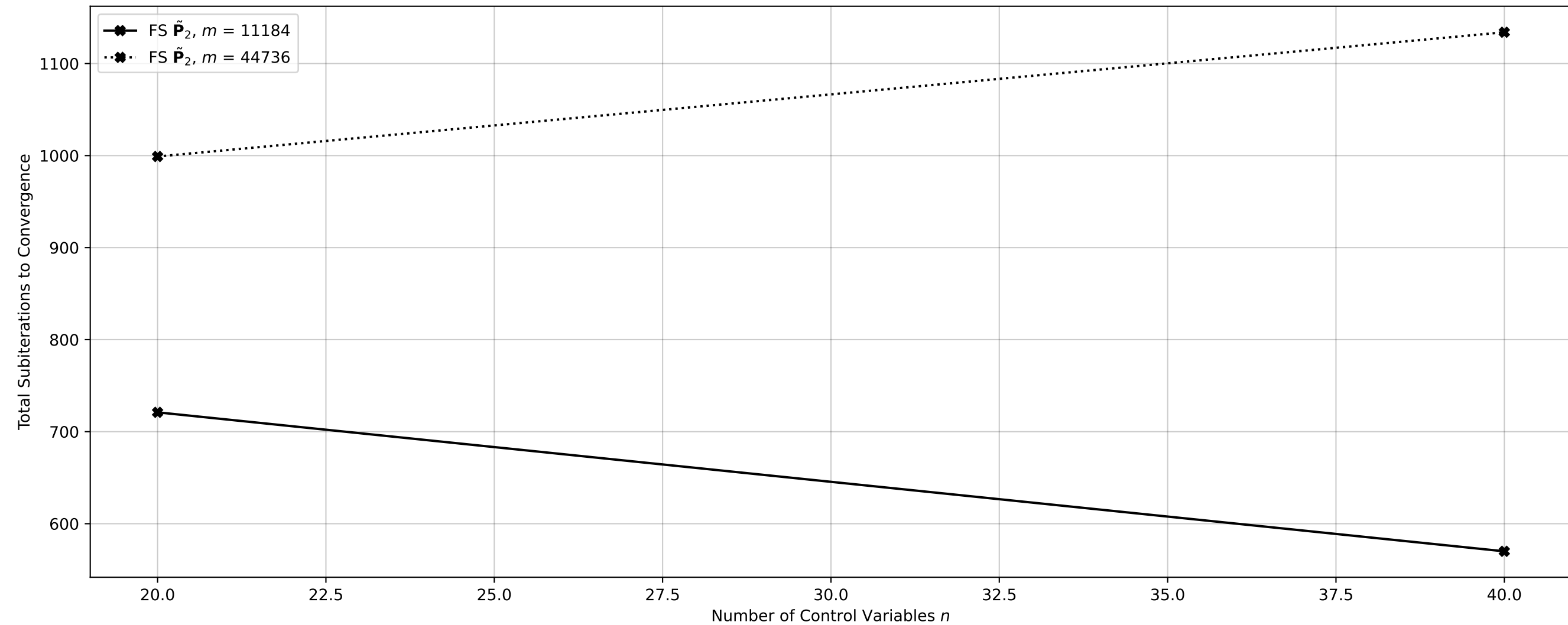
Full-space Design Cycles vs Control Variables



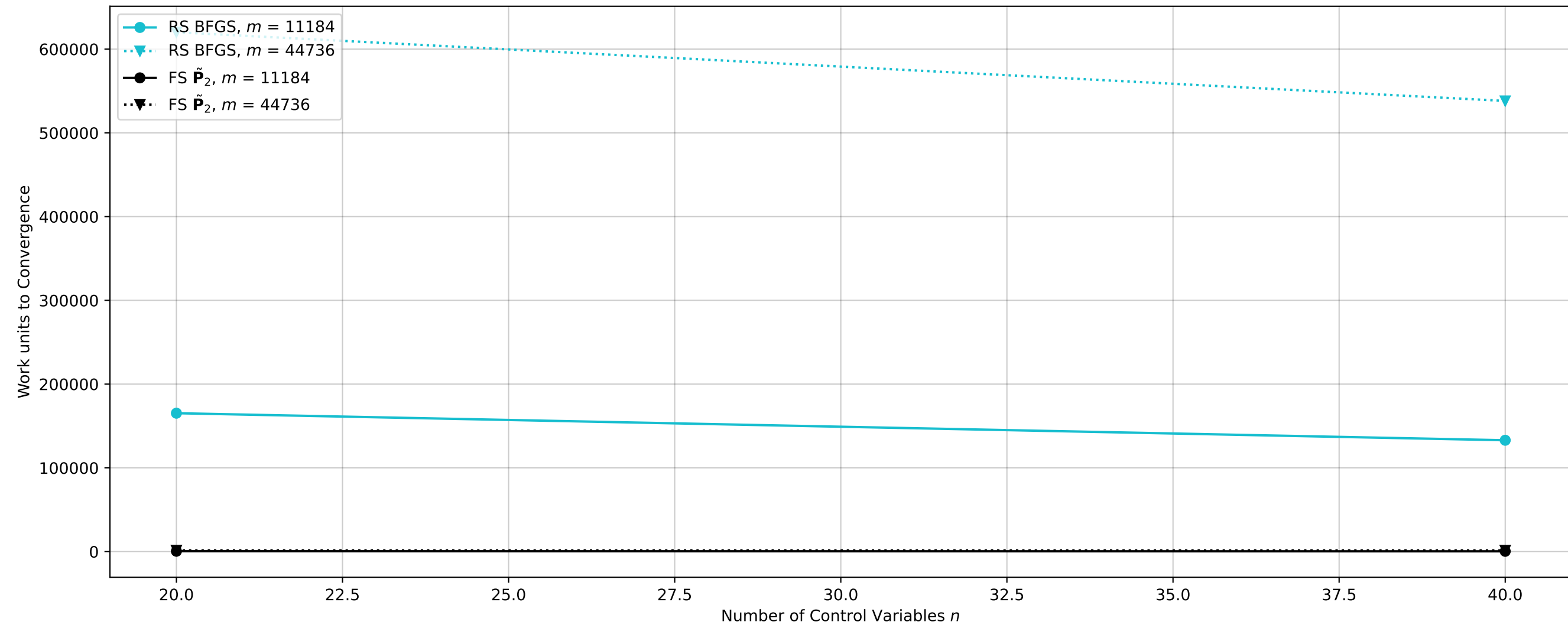
Work Units vs Control Variables



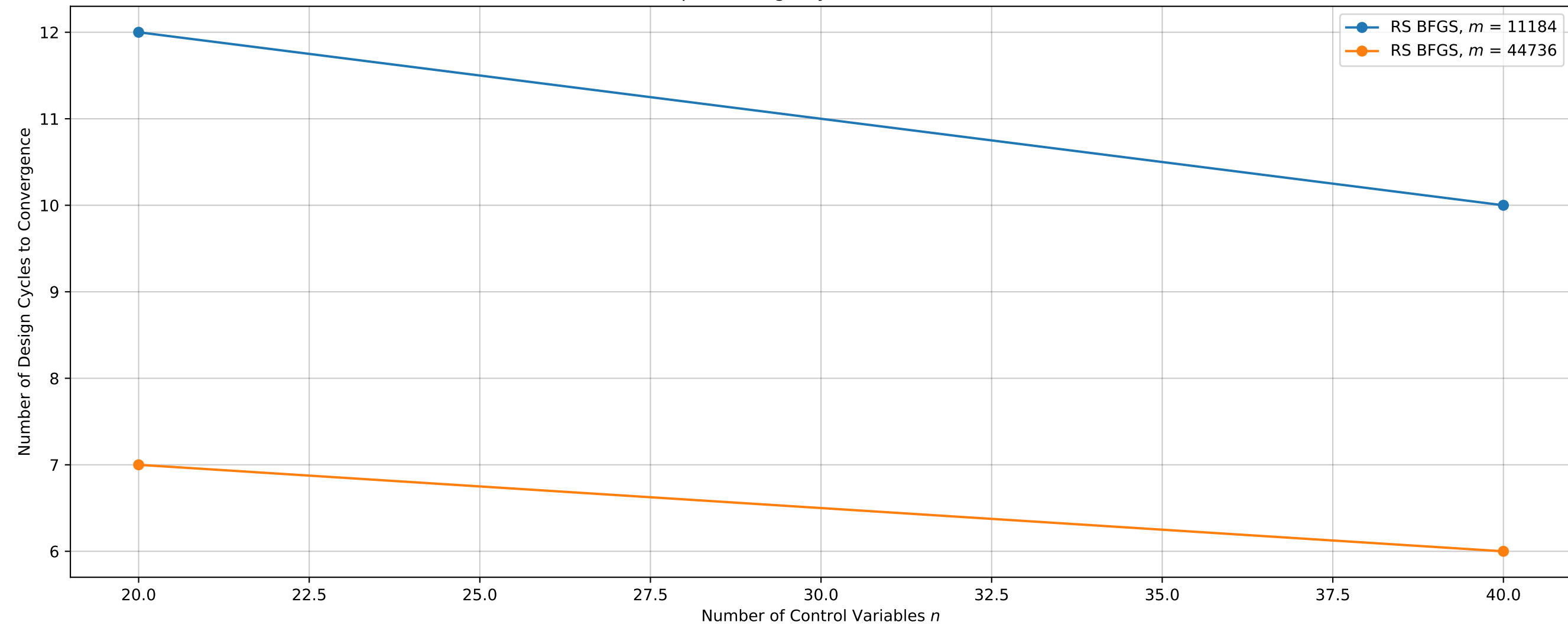
Total Subiterations vs Control Variables



Work Units vs Control Variables

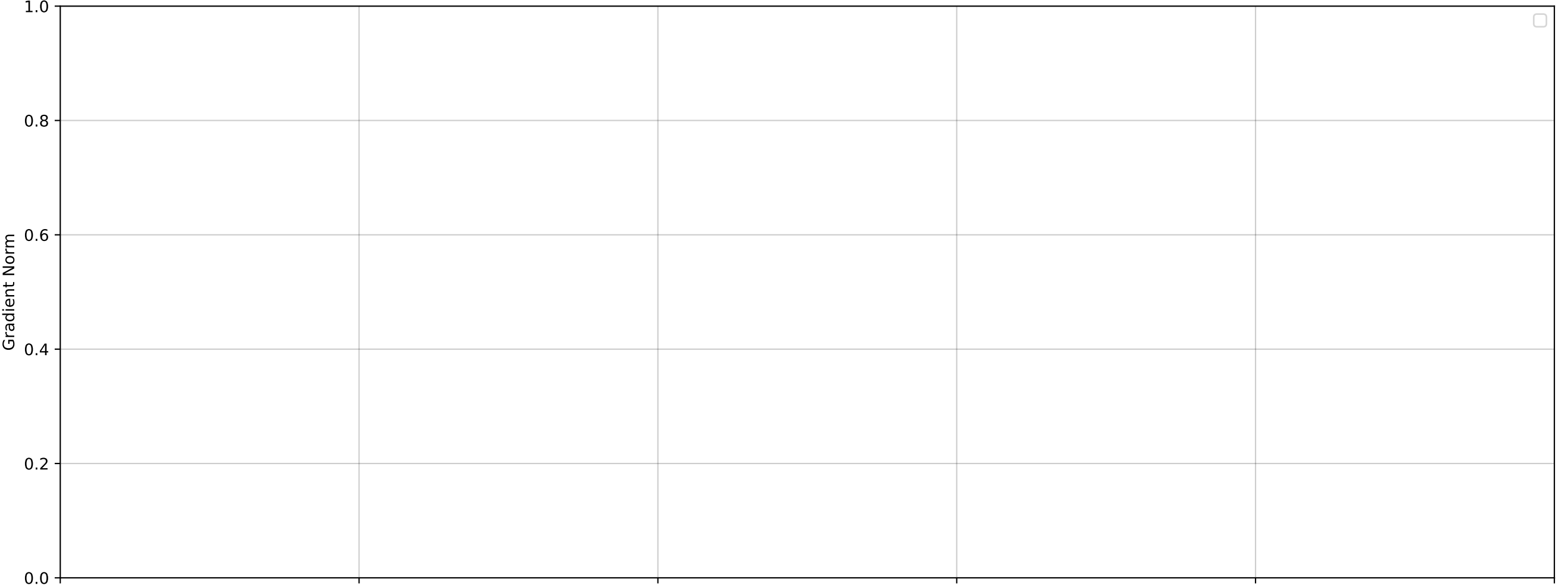


Reduced-space Design Cycles vs Control Variables

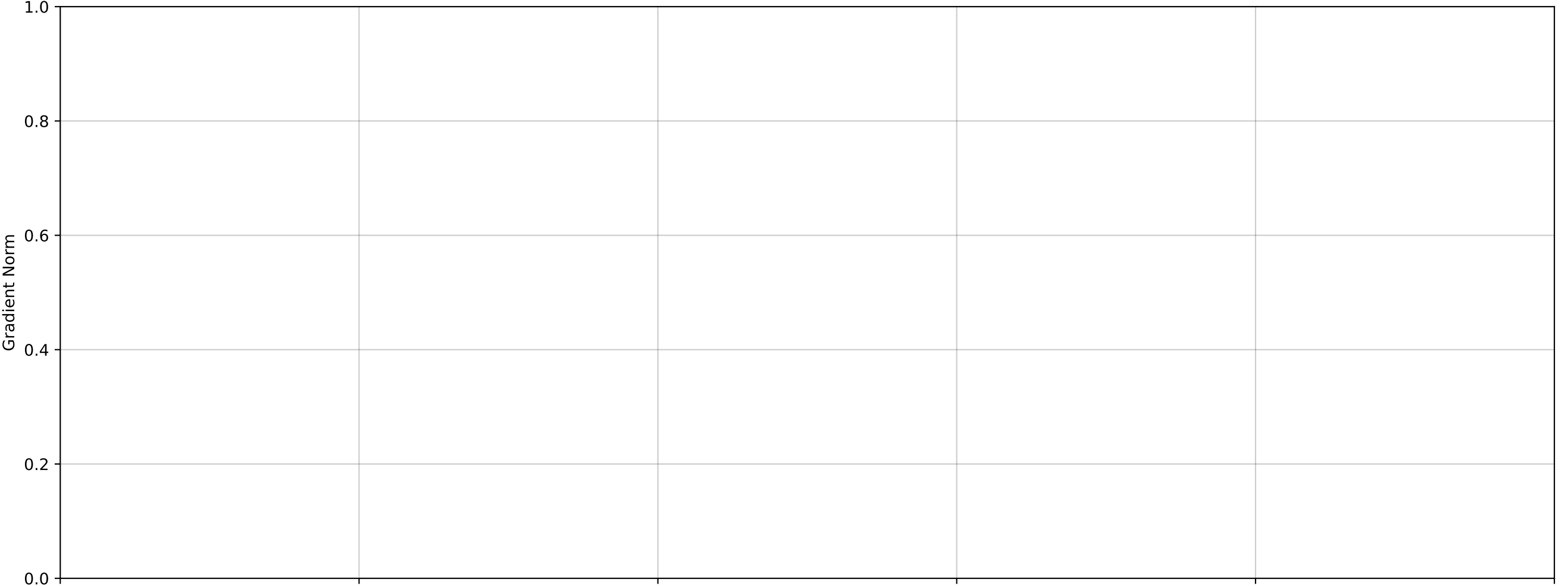


Reduced-space Gradient vs Design Cycles

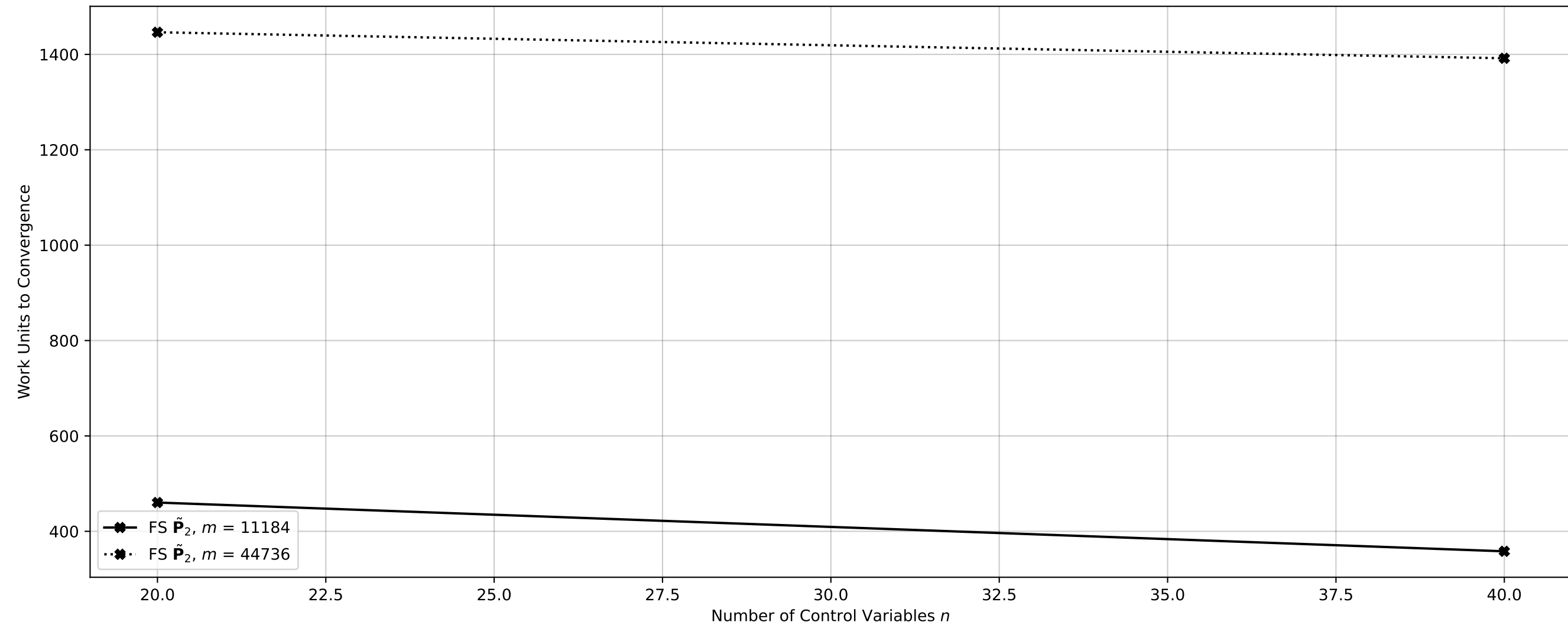
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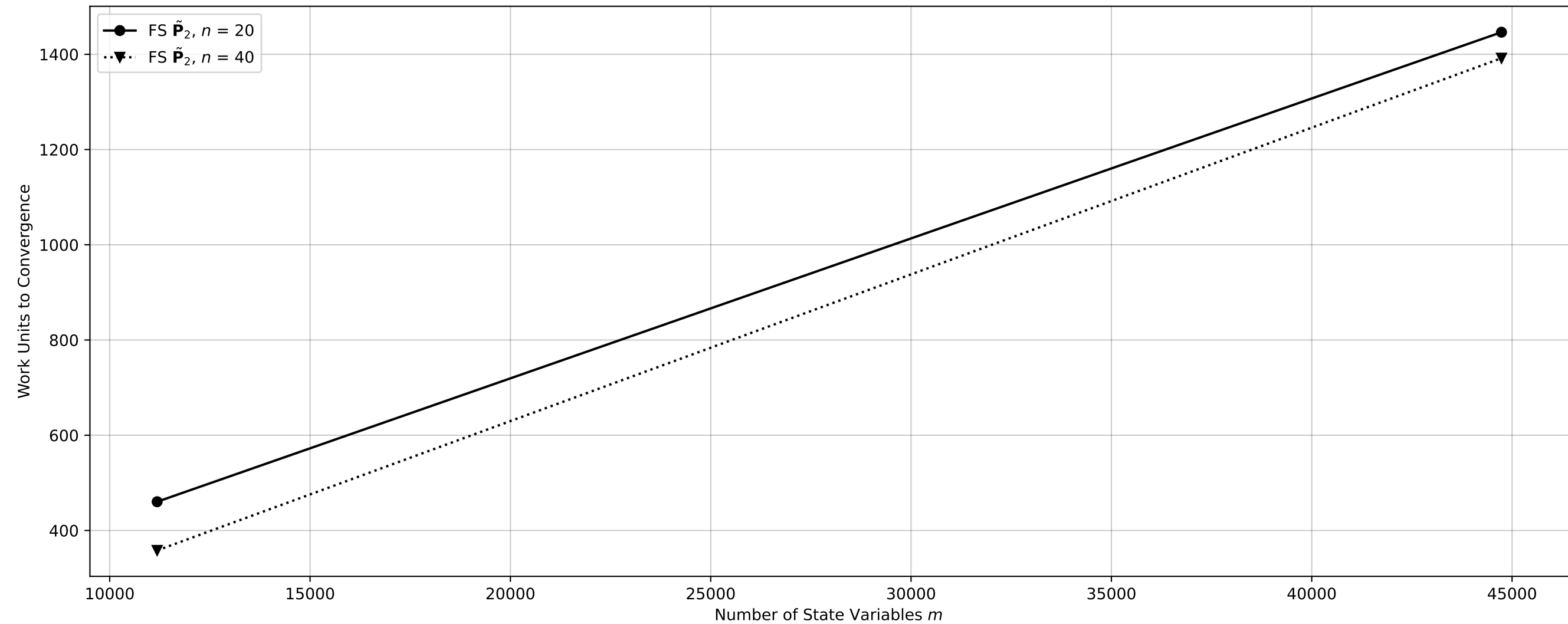
$m = 44736$



Work Units vs Control Variables



Work Units vs State Variables



Gradient Norm vs Design Cycles $m = 44736$

