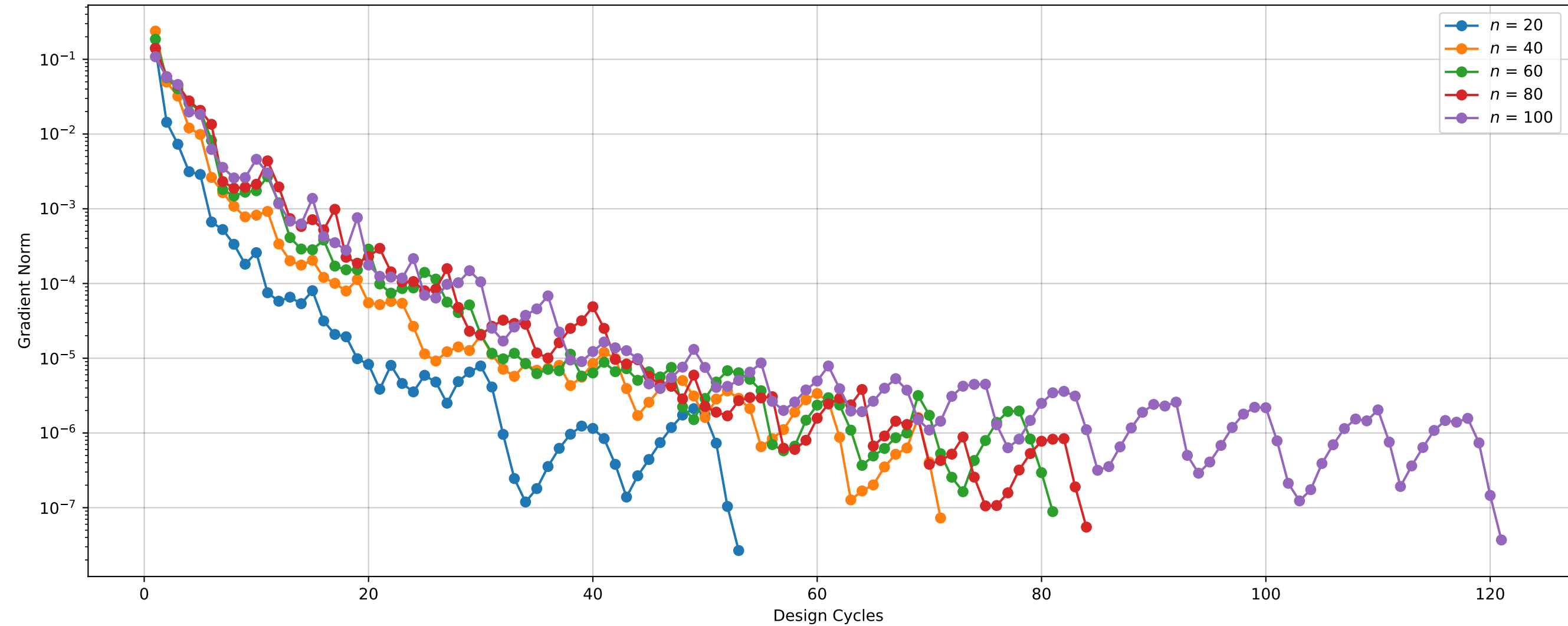
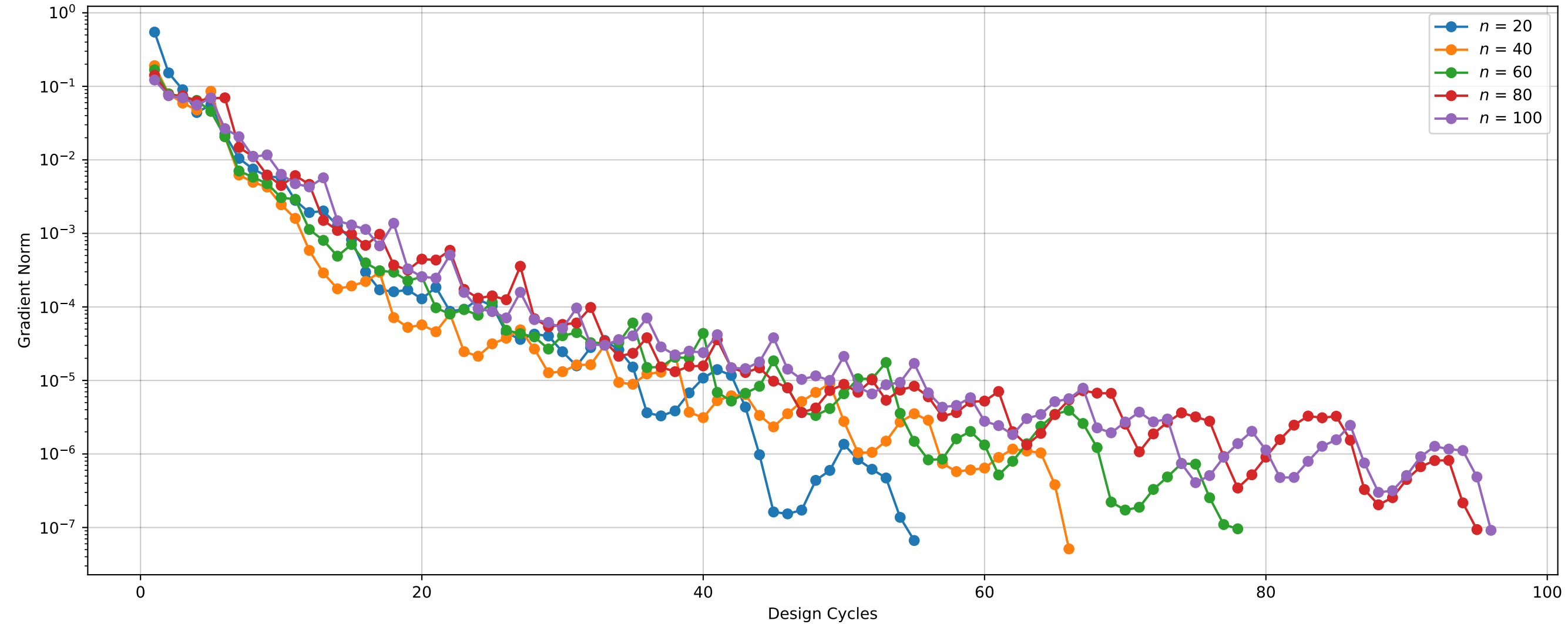


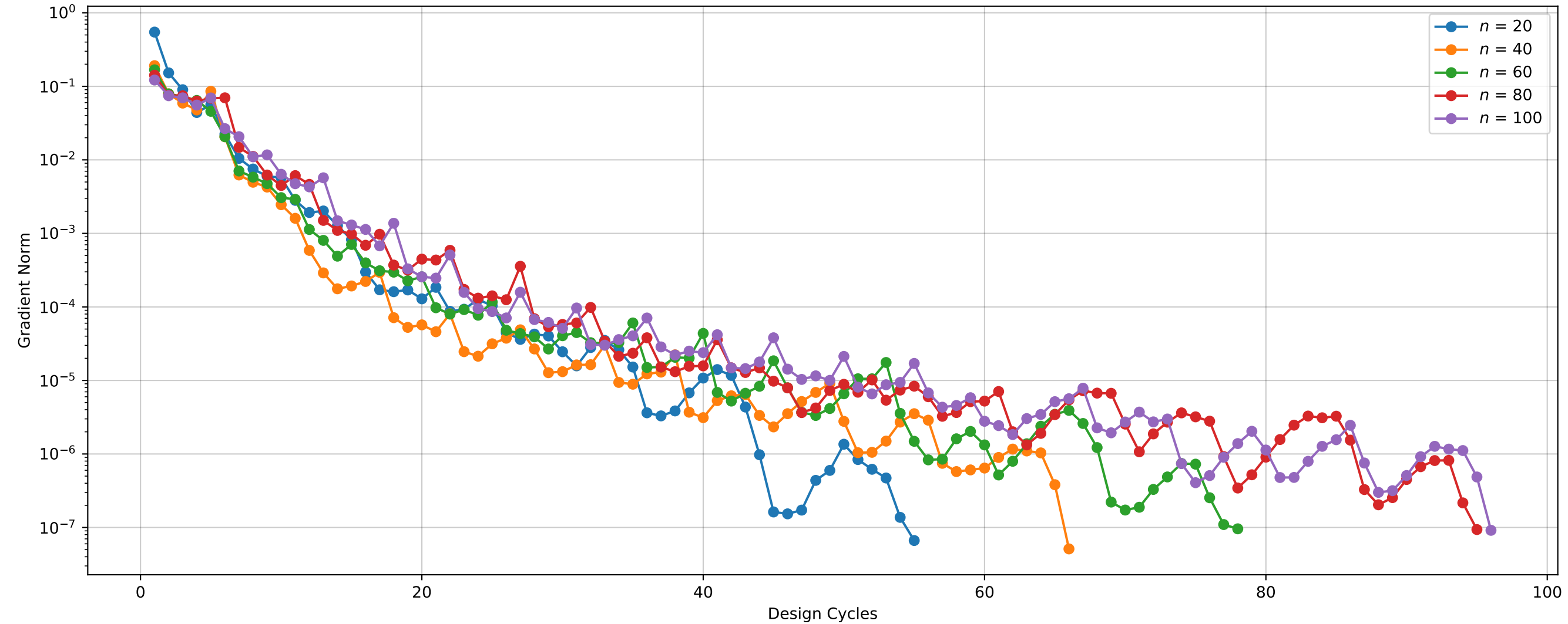
Reduced-space BFGS Gradient vs Design Cycles, $m = 8248$



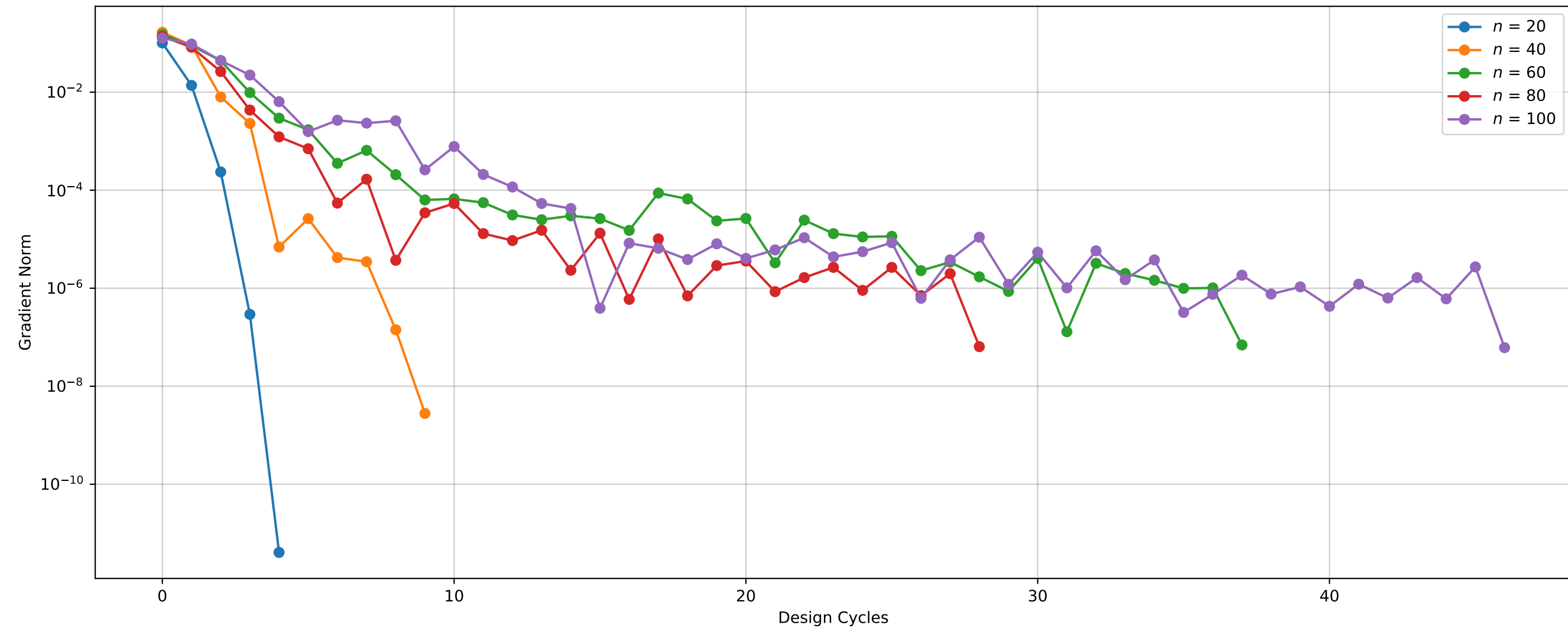
Reduced-space BFGS Gradient vs Design Cycles, $m = 32992$



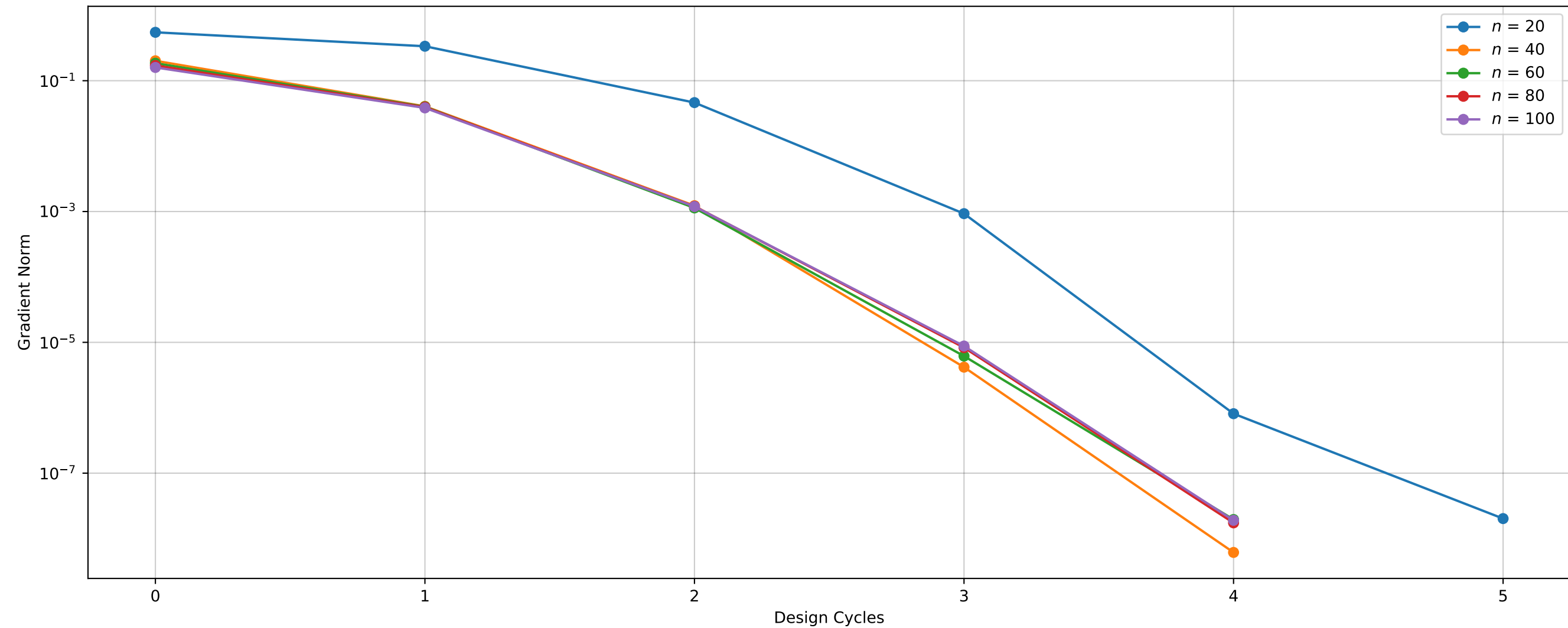
Reduced-space BFGS Gradient vs Design Cycles, $m = 74232$

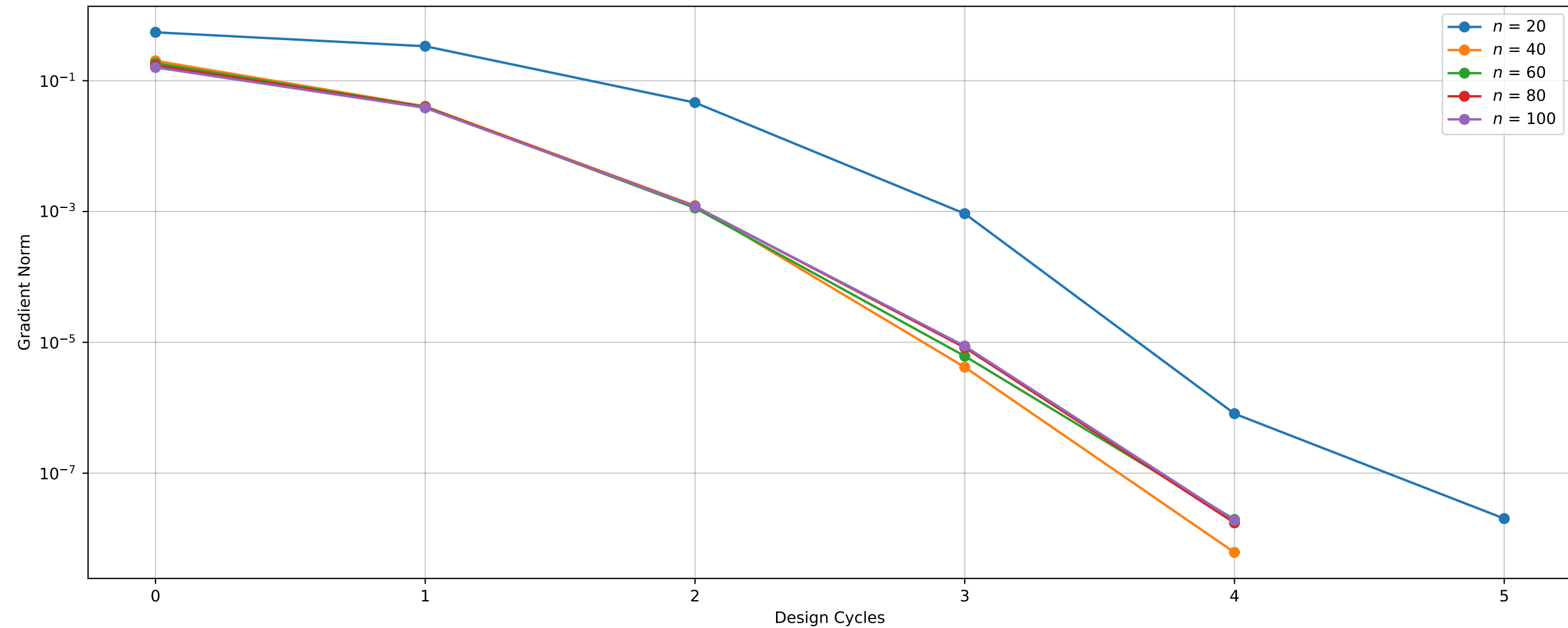


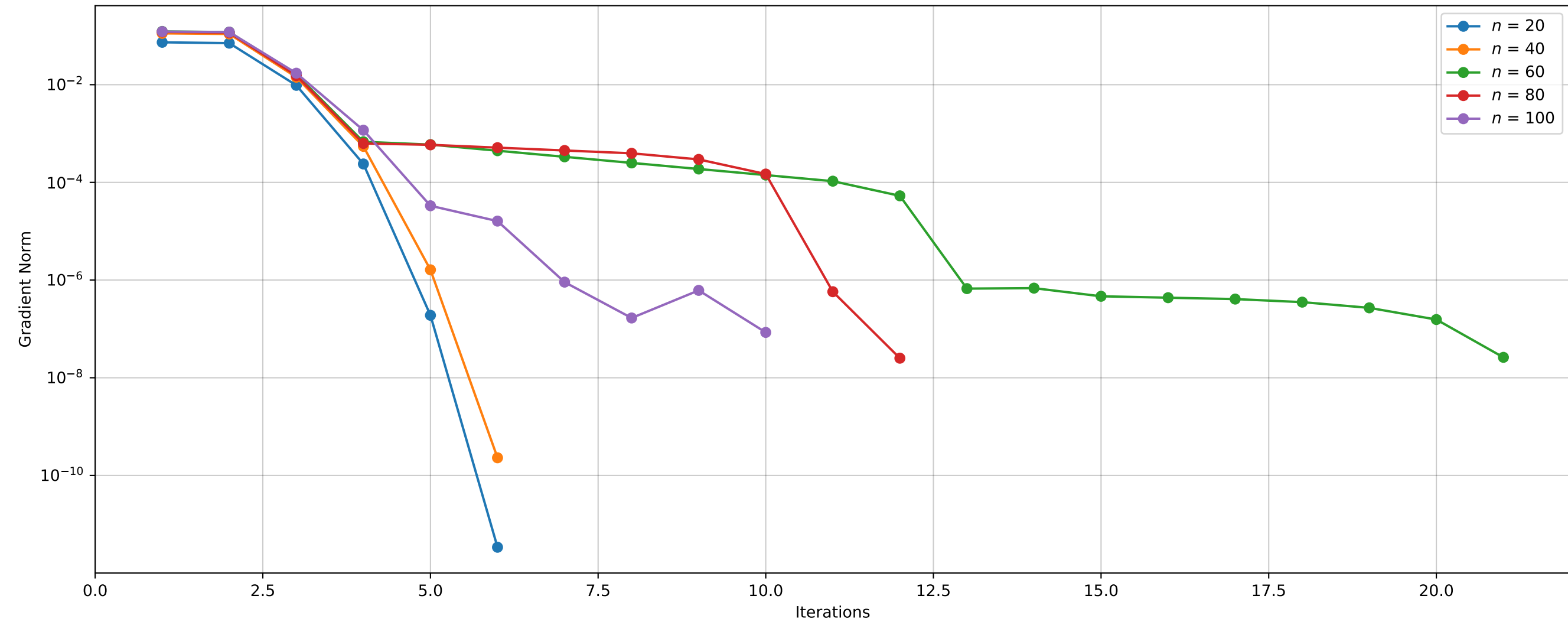
Reduced-space Newton Gradient vs Design Cycles, $m = 8248$



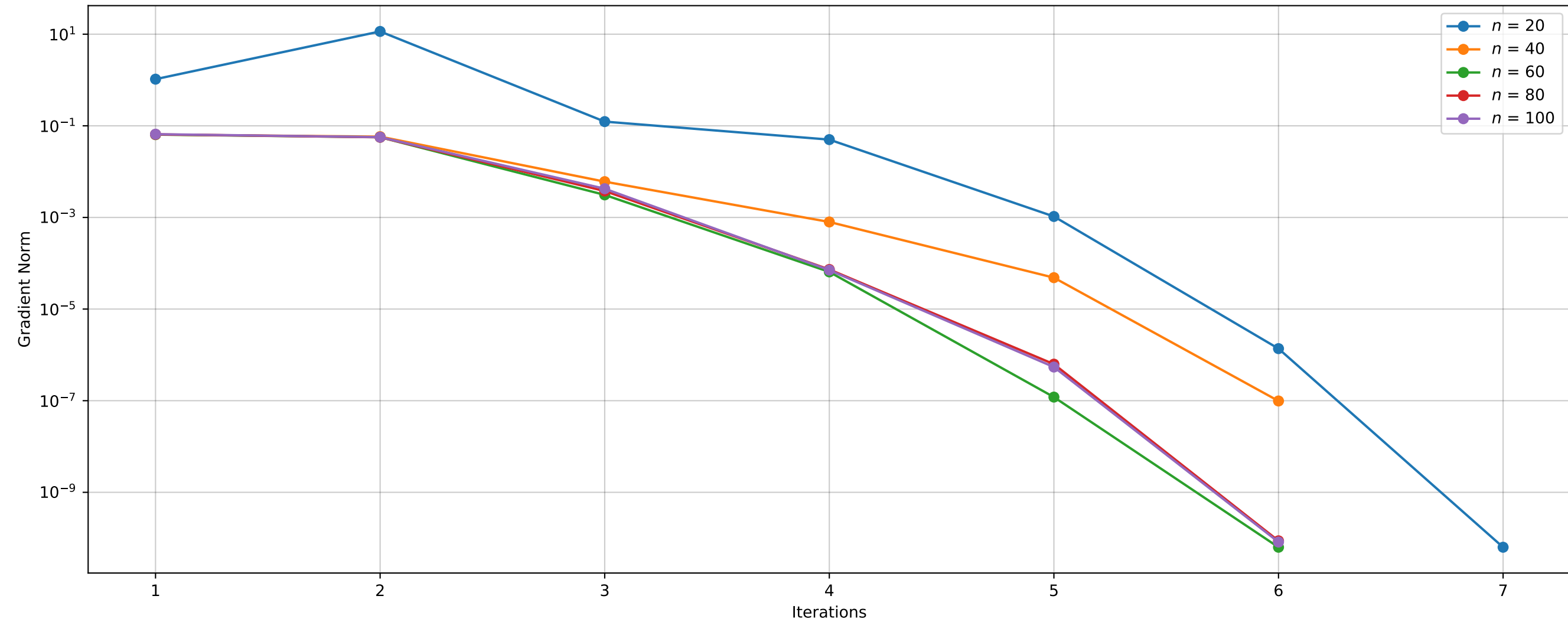
Reduced-space Newton Gradient vs Design Cycles, $m = 32992$



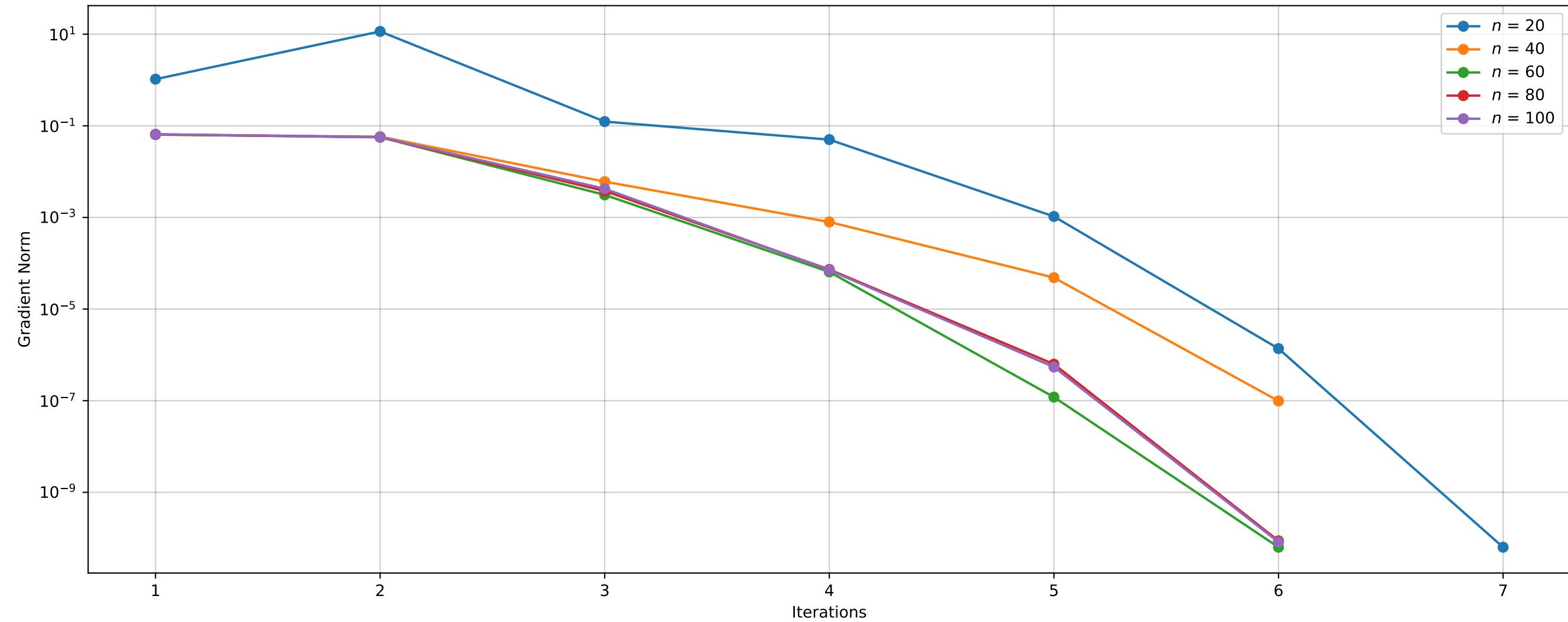
Reduced-space Newton Gradient vs Design Cycles, $m = 74232$ 

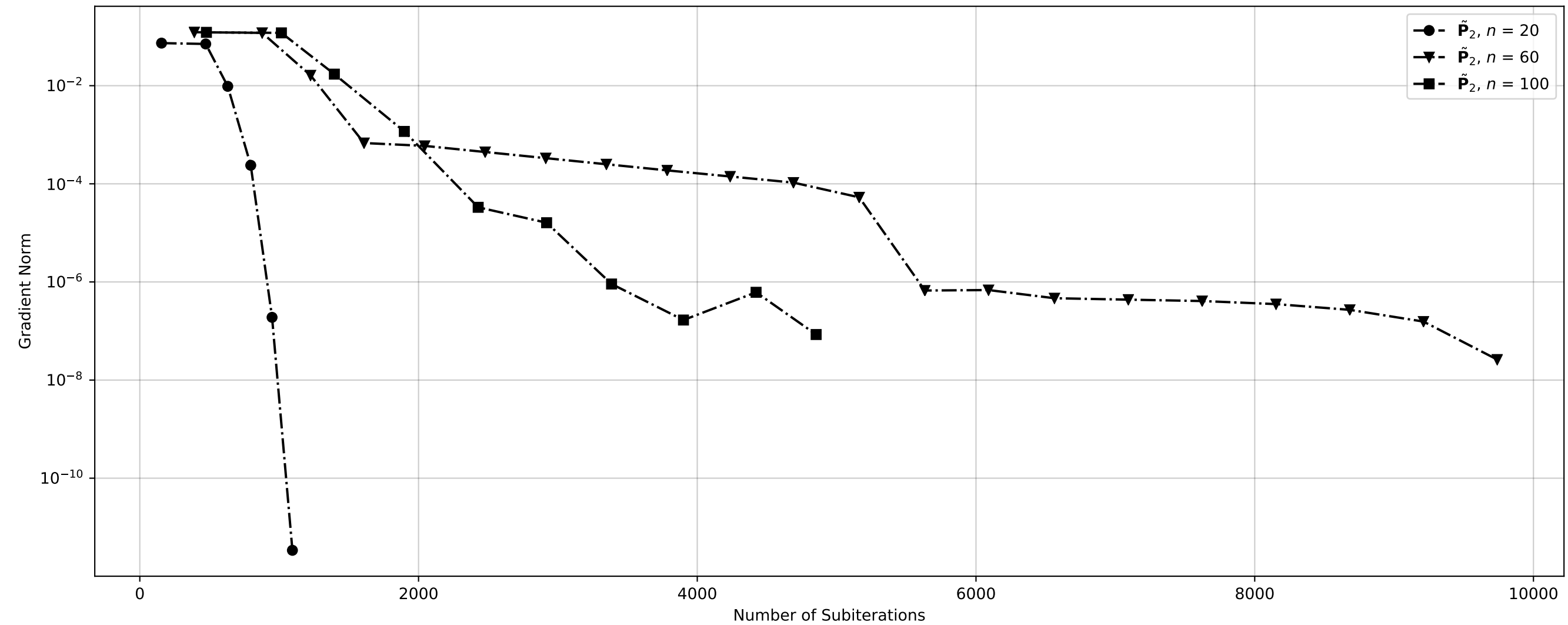
Full-space with $\tilde{\mathbf{P}}_2$ Gradient vs Design Cycles, $m = 8248$ 

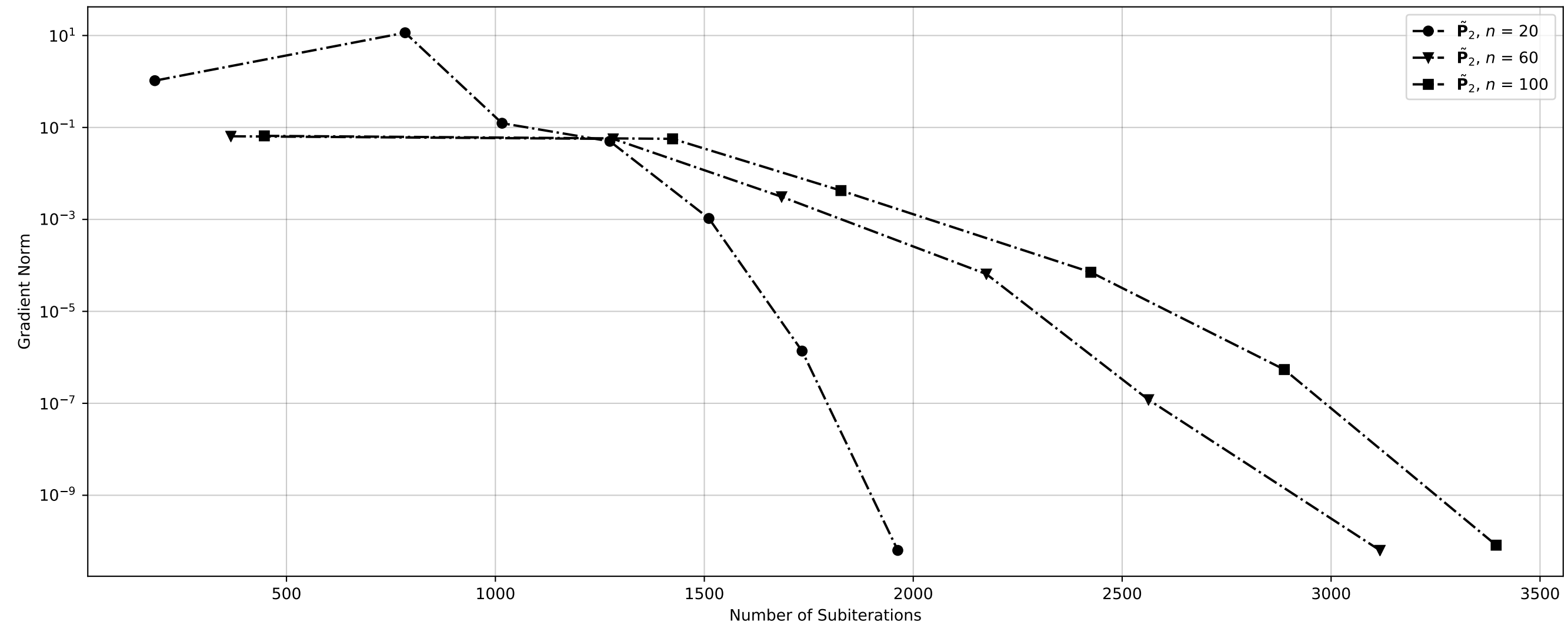
Full-space with $\tilde{\mathbf{P}}_2$ Gradient vs Design Cycles, $m = 32992$

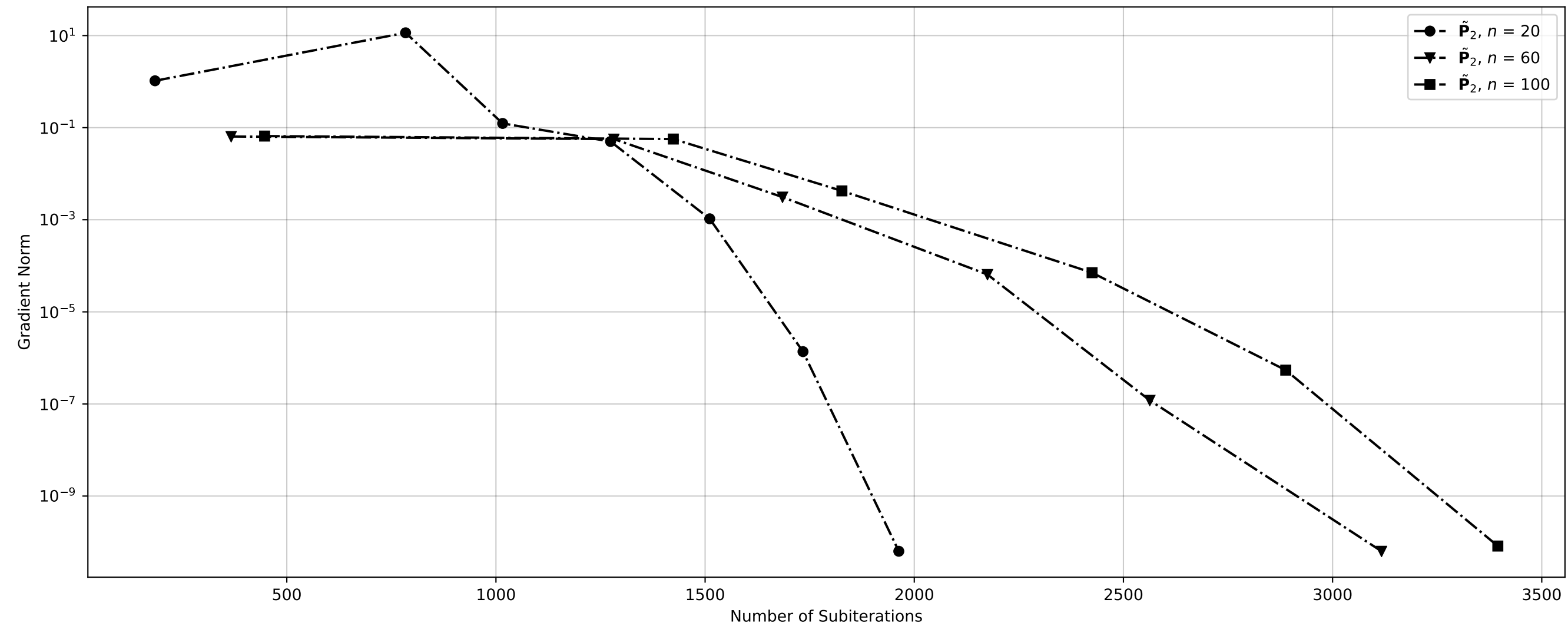


Full-space with $\tilde{\mathbf{P}}_2$ Gradient vs Design Cycles, $m = 74232$



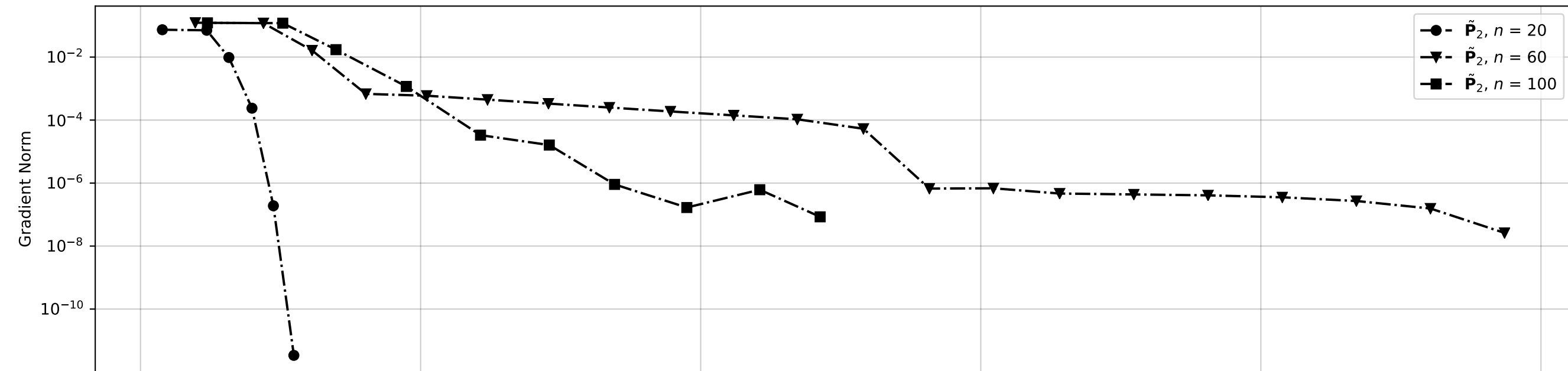
Full-space Gradient vs Subiterations, $m = 8248$ 

Full-space Gradient vs Subiterations, $m = 32992$ 

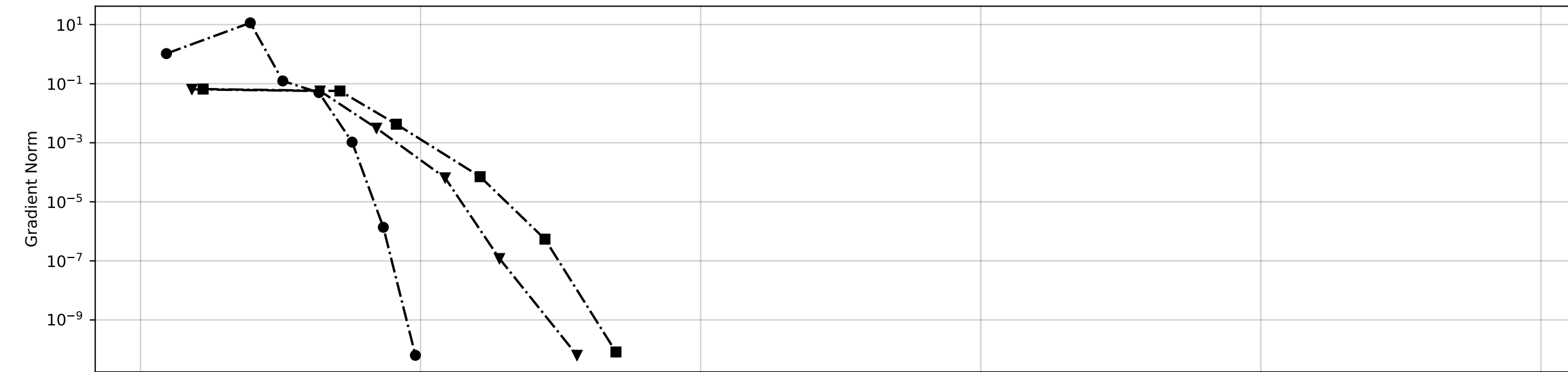
Full-space Gradient vs Subiterations, $m = 74232$ 

Full-space Gradient vs Subiterations

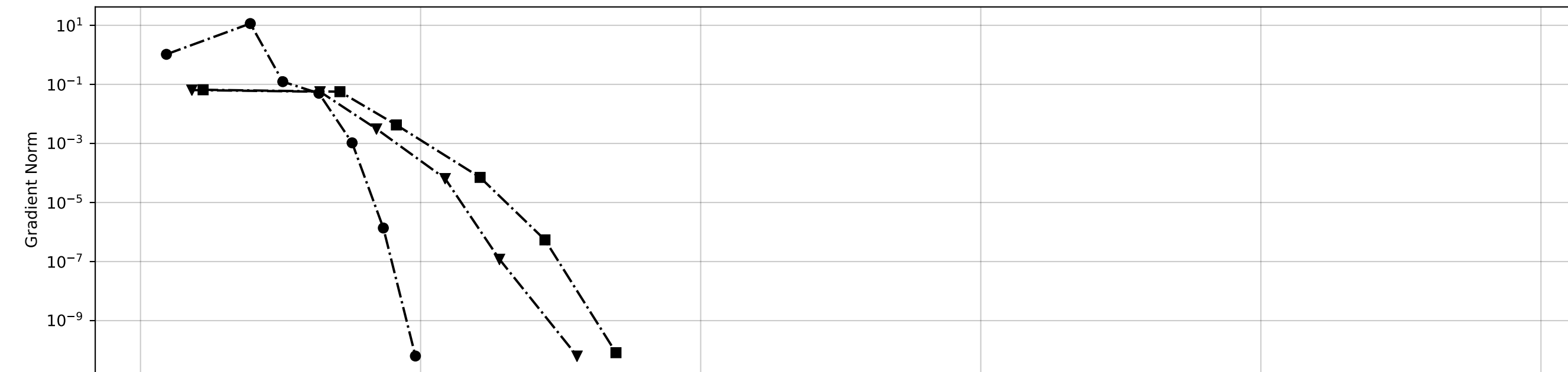
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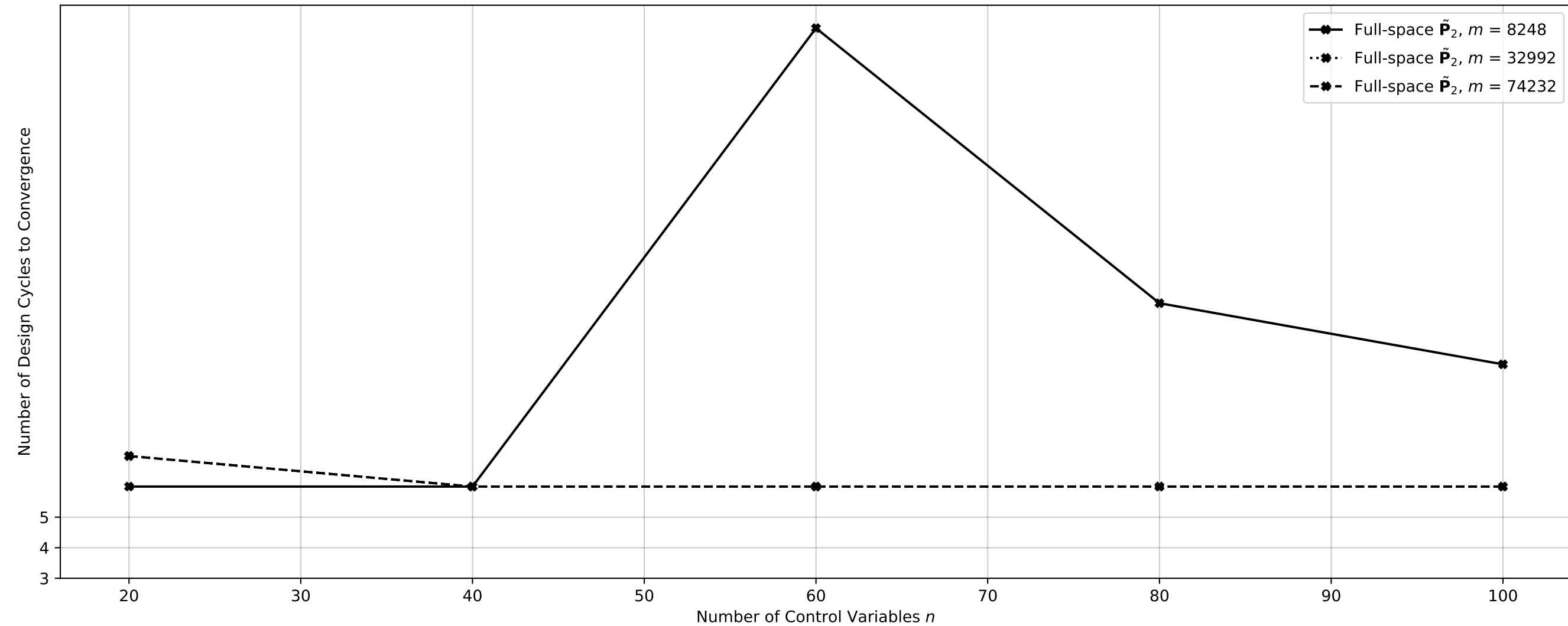
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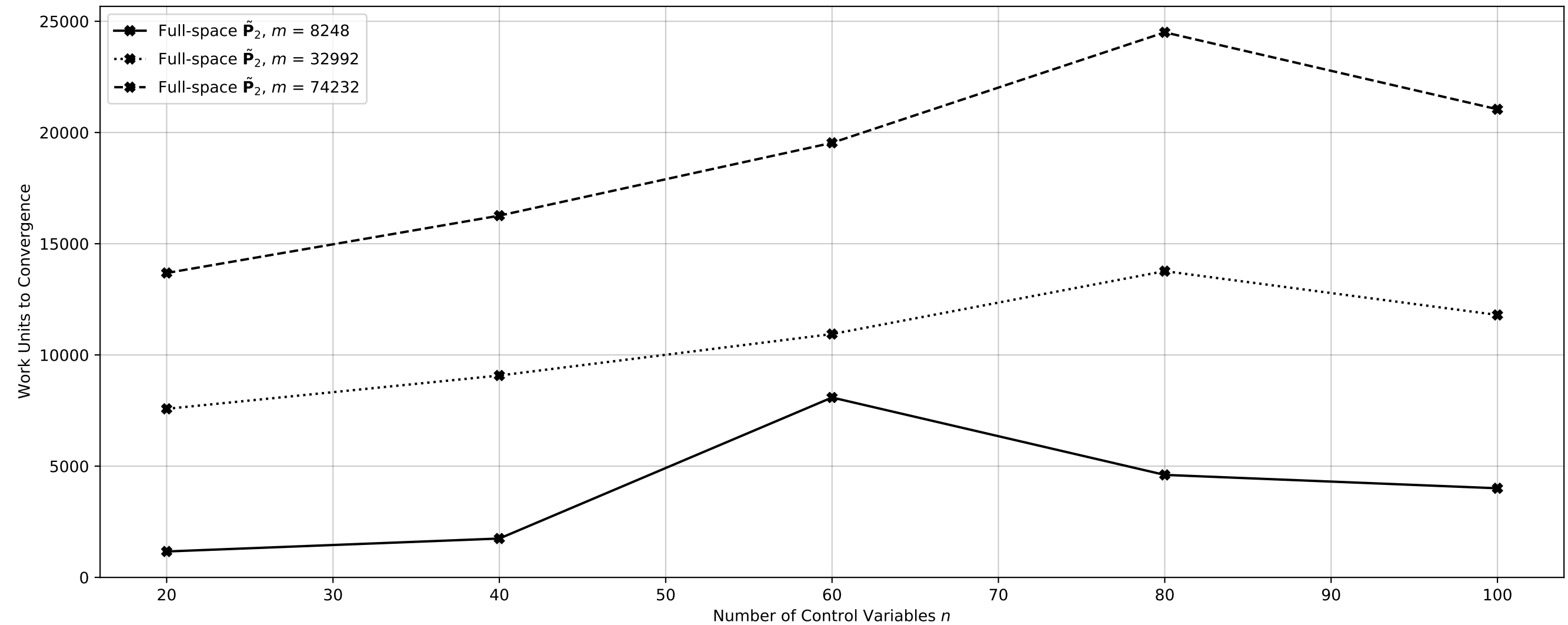
$m = 74232$



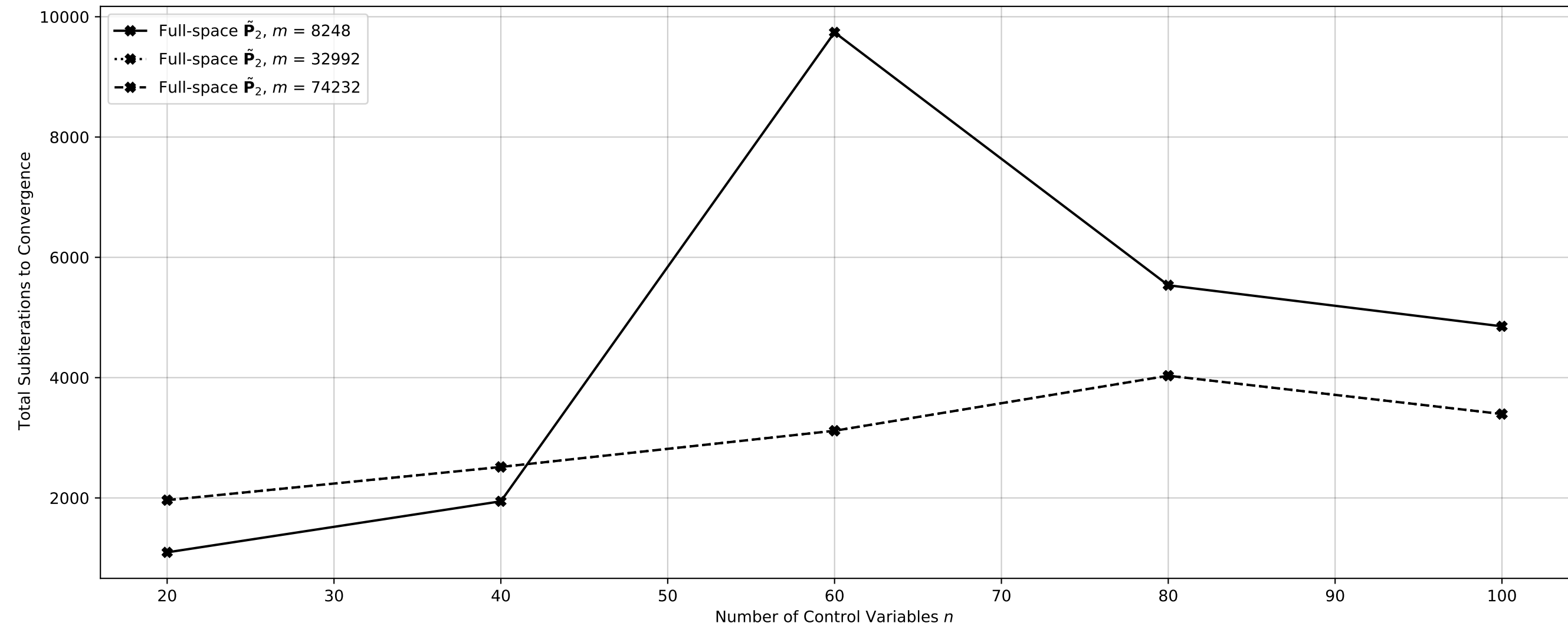
Full-space Design Cycles vs Control Variables



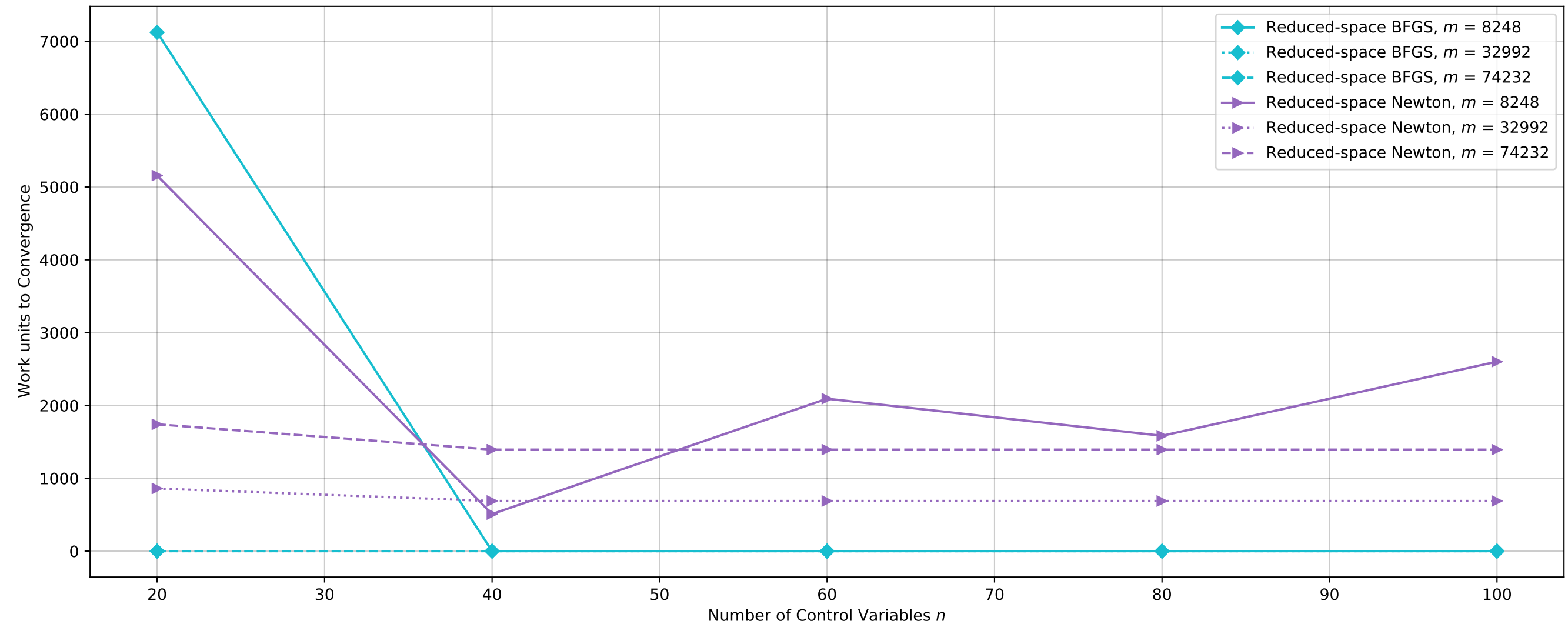
Work Units vs Control Variables



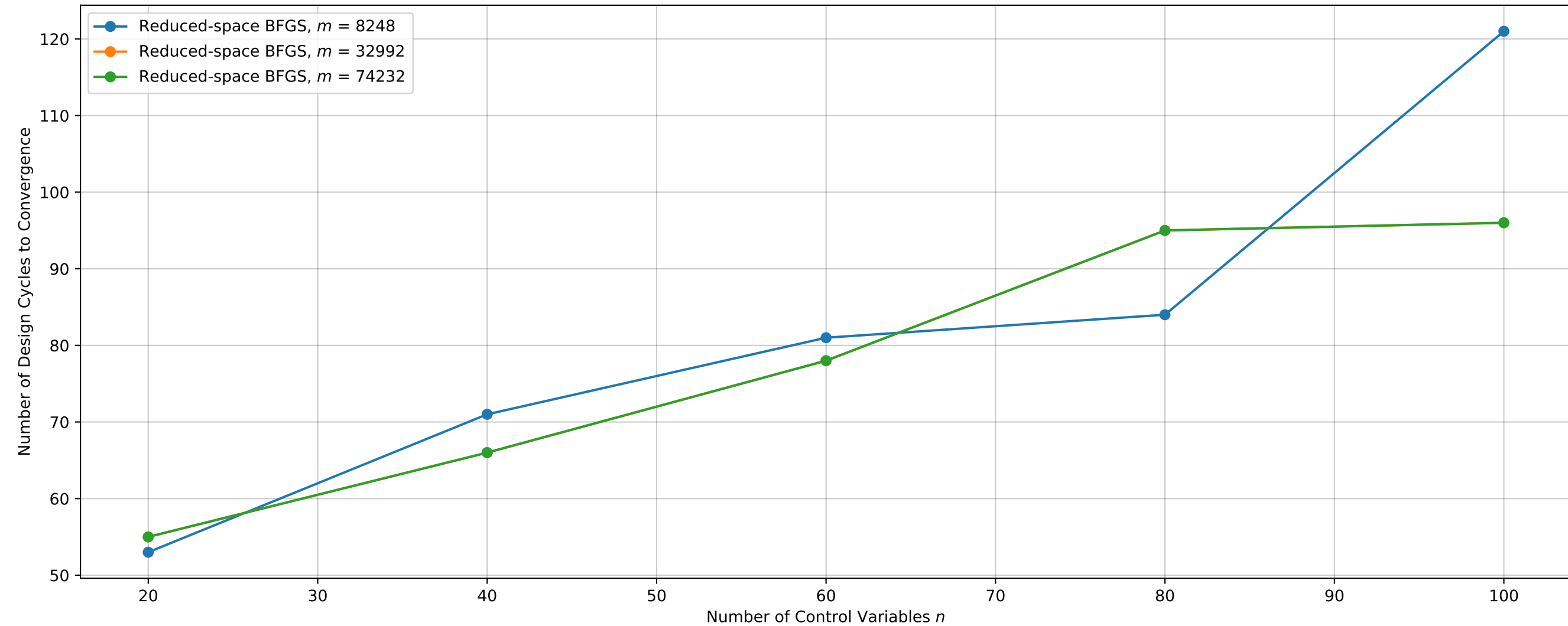
Total Subiterations vs Control Variables



Work Units vs Control Variables

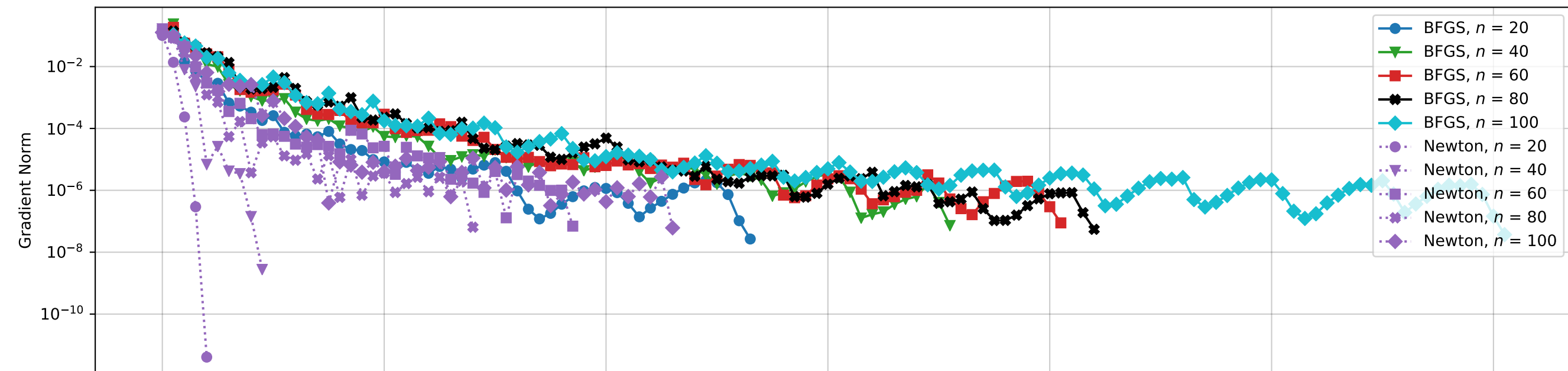


Reduced-space Design Cycles vs Control Variables

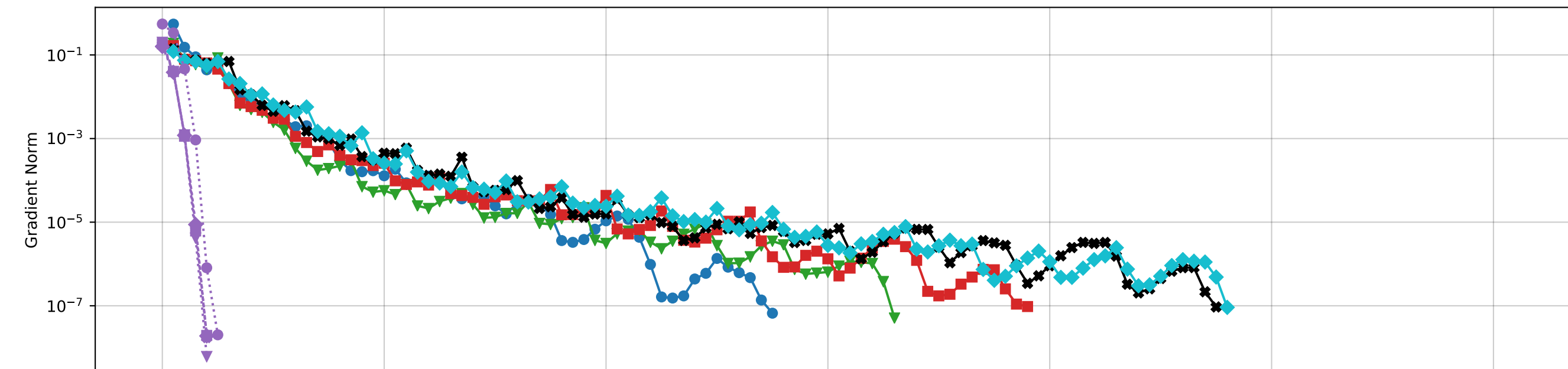


Reduced-space Gradient vs Design Cycles

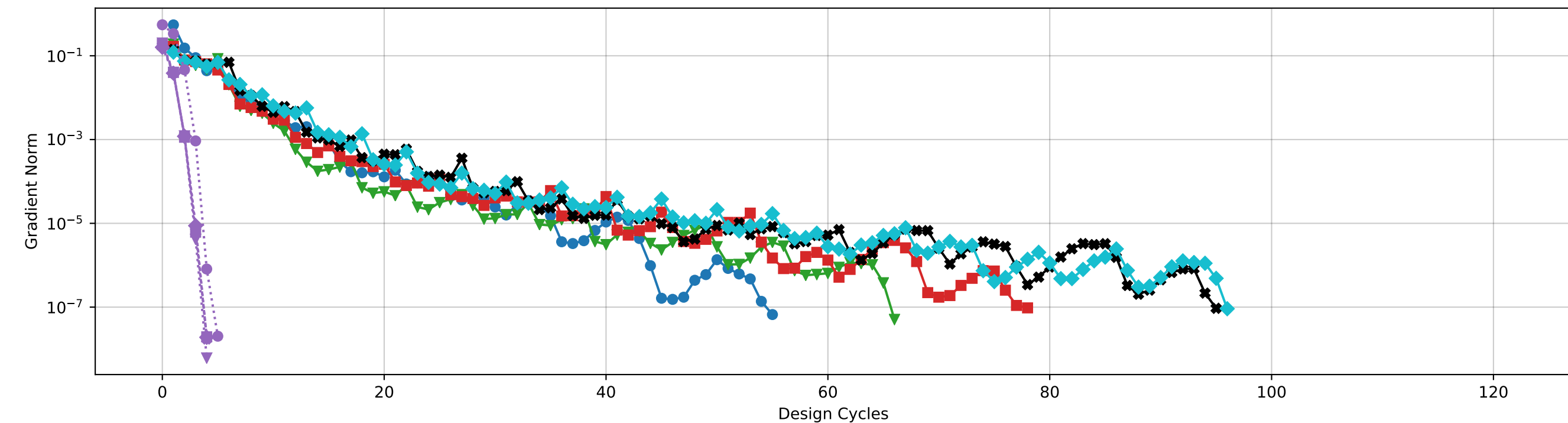
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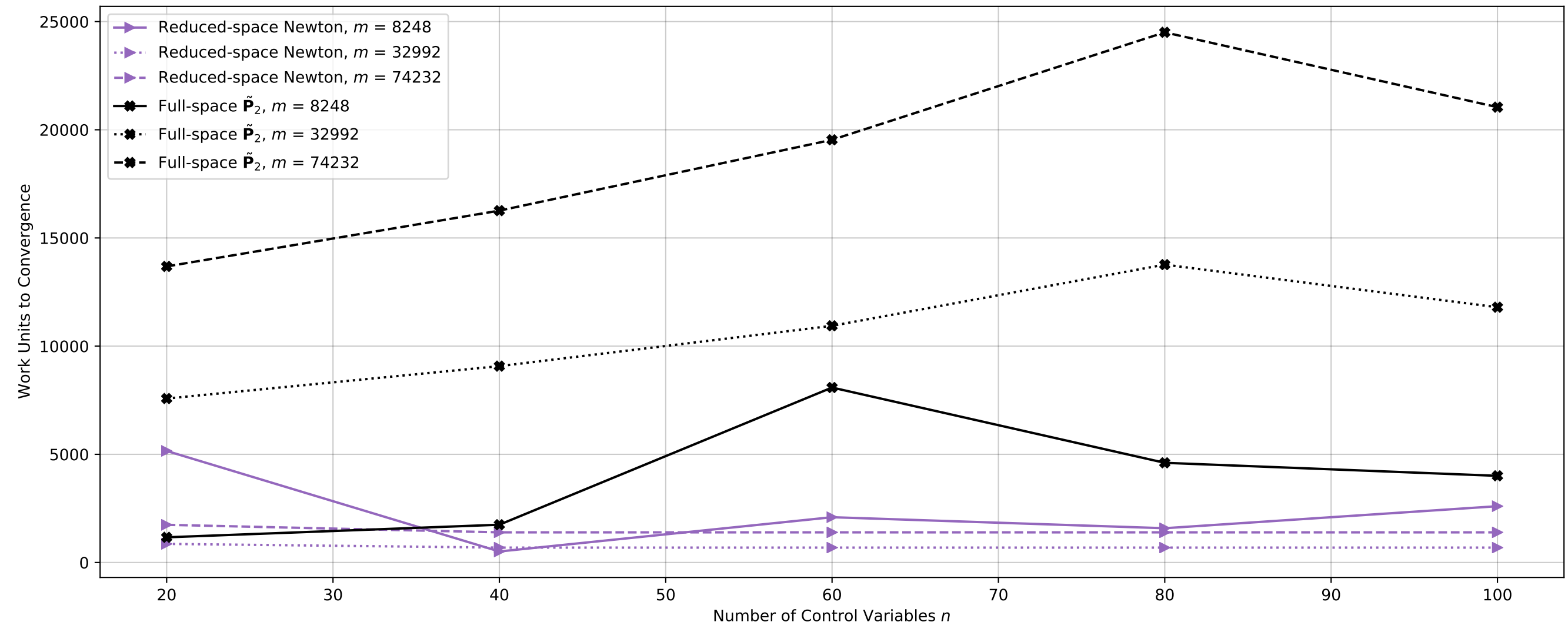
$m = 32992$



$m = 74232$



Work Units vs Control Variables



Work Units vs State Variables

