

Lab 11 - 16th Nov 2023, Lena Kellner

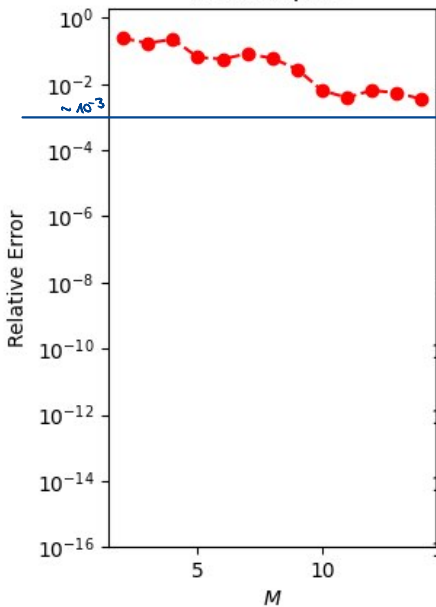
of intervals when ...

... non-adaptive	Gauss	reaches accuracy 10^{-3} :	Never (when $N \in \{1, \dots, 13\}$)
... adaptive	Gauss	— " —	: $\forall n \in \{1, \dots, 13\}$
... non-adaptive	Simpsons	— " —	: Never
... adaptive	Simpsons	— " —	: Never
... non-adaptive	Trap	— " —	: $\forall n \in \{6\}$
... adaptive	Trap	— " —	: $\forall n \in \{2, \dots, 13\} \setminus \{10\}$

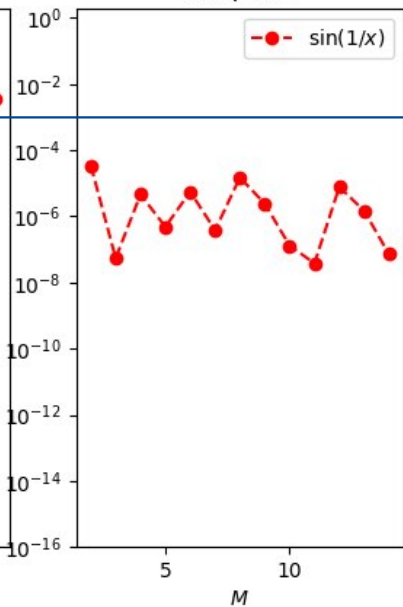
⇒ The best choice is adaptive Gauss method!

Error Gown

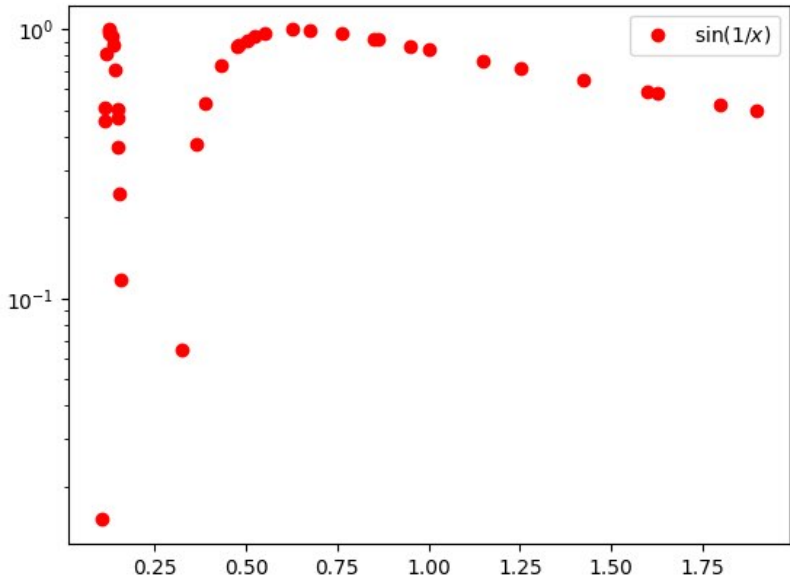
Non-adaptive



Adaptive



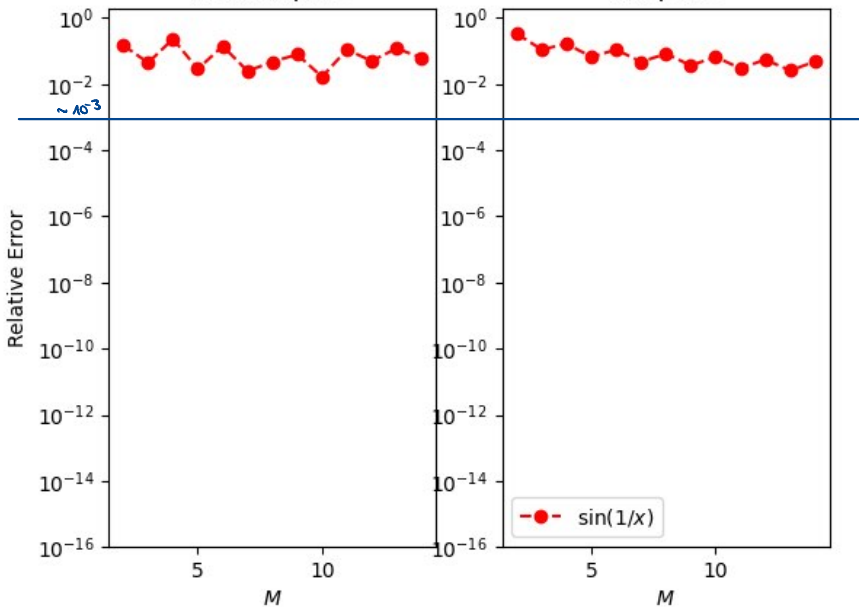
Mesh Gauss



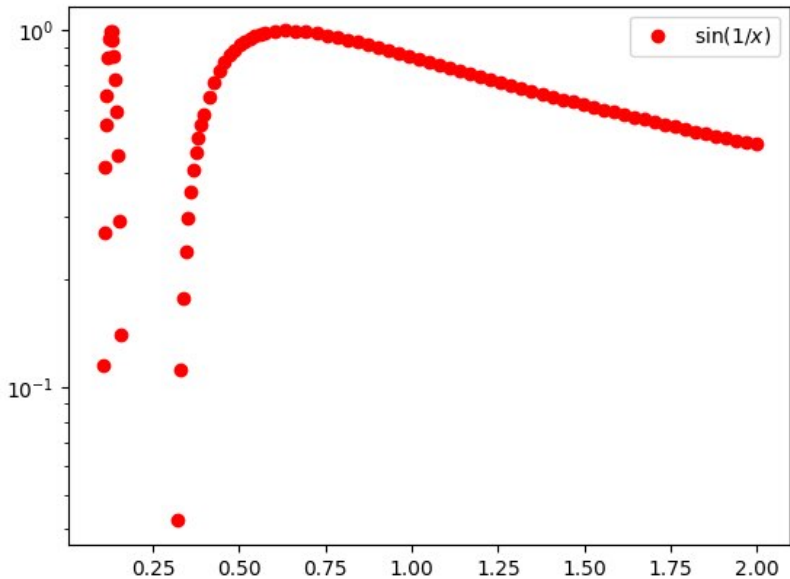
Error Simpson's

Non-adaptive

Adaptive



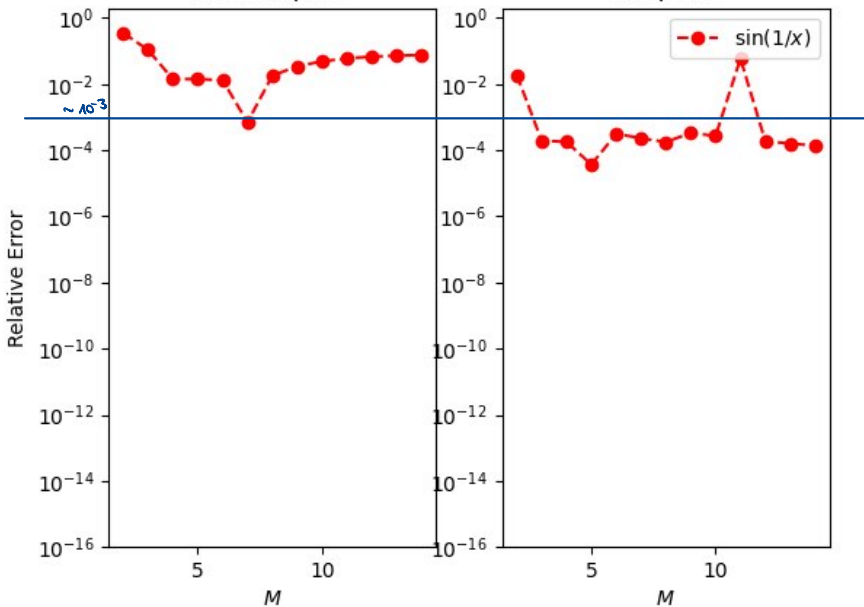
Mesh Simpsono



Trap Error

Non-adaptive

Adaptive



Trap Mesh

