

# Algebrability of nowhere Gevrey differentiable functions

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**Abstract.** In this talk, we will study generic results about nowhere Gevrey differentiable functions. Any nowhere Gevrey differentiable function is in particular nowhere analytic. It is known that the set of nowhere analytic functions is prevalent ([2]), residual ([5]), lineable ([3]) and algebrable ([4]) in  $\mathcal{C}^\infty([0, 1])$ . In [2], it was also shown that the set of nowhere Gevrey differentiable functions is prevalent and residual in  $\mathcal{C}^\infty([0, 1])$ . So a natural question is to ask whether the set of nowhere Gevrey differentiable functions is also lineable and even algebrable. This talk will answer this question.

## References

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