

## Review Comments

The manuscript presents a comprehensive investigation of higher-order statistics in wind turbine wakes and provides interesting insights into the concept of the intermittency ring. The methodology is sound, the analyses are thorough, and the conclusions are well supported by the presented results. I believe this work is suitable for publication after addressing a few technical corrections.

1. **The novelty presented in the abstract could be stated more explicitly.** The abstract currently mentions 'a new method', but it is not sufficiently clear what this new method actually refers to. I suggest briefly describing the key methodological innovation here. The authors statement that the proposed approach reduces the computational cost by approximately 20% should be accompanied by a short explanation of why this reduction is achieved, so that readers can better understand its significance.
2. **Please carefully check the formatting of mathematical variables throughout the manuscript.** Several variables that should be typeset in italics appear in upright font. For example, in Figure A1, the symbol  $D$  in ' $3D$ ' should be italicized.
3. **The figures in the Appendix could be improved for readability.** For example, in Figure C1, the subfigures are arranged too closely together, making the y-axis labels difficult to read. Increasing the spacing between panels or adjusting the layout would significantly improve the figure quality. Please also check other figures through the manuscript.