

# Review of: "Designing and modeling microwave photonic spectral filters based on optical microcombs"

Yuan Men<sup>1</sup>

<sup>1</sup> Xidian University

**Potential competing interests:** No potential competing interests to declare.

In this work, the authors give out a comprehensive analysis for the performance of microcomb-based MWP spectral filters. The paper is well-written and the analysis results are convincing. In my opinion, this article needs minor revision before acceptance. Here are my suggestions for the authors.

1. I recommend that the author analyzes the performance of the filter according to actual parameters of existing devices. For example, the wavelength stability, the amplitude stability, etc.
2. The authors have provided a detailed analysis. Please specify whether this analysis is based on experimental results or simulation results.
3. In Fig. 9, four error sources are listed. However, it is important to note that the purple error source "V" in Fig. 9(d) is not defined.
4. Fig. 10 displays the filter output with and without practical errors. Please give the specific values of these practical errors for better understanding.
5. There are inconsistencies in the format of the references.