

## ***Interactive comment on “Bayesian full-waveform inversion of tube waves to estimate fracture aperture and compliance” by Jürg Hunziker et al.***

**Anonymous Referee #2**

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This paper proposed a new inversion algorithm of tube waves and detailed analysis. However, the logic of this paper is not clear and strange.

(1) There is indeed numerical test. Yet the numerical test is quite just analysis, and there is no real data tests.

(2) Take figure 4 as example. How is the simulated result generated in detail? Throughout the paper, what does "synthetic" mean? Concrete inversion results are not found.

(3) why there is a numerical example in the appendix?

Separately, add the reference where formula (4) came from.

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Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2019-183>, 2019.