

## ***Interactive comment on “To what degree the geometry and kinematics of accretionary wedges in analogue experiments is dependent on material properties” by Ziran Jiang et al.***

### **Anonymous Referee #1**

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In this manuscript, the authors discuss the influence of material properties on the development of analogue accretionary wedges. While this manuscript has potential to interest the readers of this journal, it needs some substantial improvements, mostly in terms of the form.

1. The text needs to be carefully proofread and the English needs substantial improvements. There are many problems with the grammar and syntax, as well as with some terms and wording.
2. The Description of the Apparatus (Section 3.1) should be moved to Section 2 and the Results should be presented as a separated section. It would also be good to have

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a scheme with the design of the apparatus, and if possible, it would be advantageous to have more photos of the experimental results at different time steps. I understand that the slices could only be made in the final step of the experiments, but it would be nice to have some photos with the evolution of the accretionary wedges.

3. There is a considerable amount of Discussion in the description of the Results. The different experiments are described and compared together along the way in the Results section. The authors should try to make an effort to first describe the main particularities of each experiment and then make a direct comparison between them.

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Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2018-45>, 2018.

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