

Interactive comment on “Evaluating snow weak-layer rupture parameters through inverse Finite Element modeling of shaking-platform experiments” by E. A. Podolskiy et al.

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First of all, we are grateful to the Reviewers for criticisms and comments. We have taken advantage of this opportunity to revise the paper by addressing or answering the provided remarks as explained in our detailed responses. EAP also thanks his family for providing him with conditions and financial support necessary for working on this revision.

We substantially amended the paper to account for reviewers' criticisms. During the two stages of the review we attempted to follow comments by the three referees and

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the editor. At the initial stage, the major point (accompanied by several pages of minor remarks) by the two referees and the editor was to reduce the size of the paper and to remove repeating statements for improving the readability of the text. We carefully followed this suggestion and reduced the main text at least by 3 pages. Following this initial revision, the Referee #2 has not provided any additional criticisms, the Referee #3 pointed multiple technical corrections and the Editor wrote that 'the paper reads well'.

Together with the present corrections suggested mainly by the Referee #1, modification of 6 figures, clarifications, and substantial shortening of text (by another 5 pages with one figure completely removed), we hope the paper was improved compared to the version submitted 7 months ago.

Attached documents (please, refer to the Supplement): - Referees' comments and authors' replies - highlighted changes in the manuscript - revised paper (and all its figures as separate files)

On behalf of all authors, Evgeny A. Podolskiy

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Please also note the supplement to this comment:

<http://www.nat-hazards-earth-syst-sci-discuss.net/2/C2686/2014/nhessd-2-C2686-2014-supplement.zip>

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