

Interactive
Comment

Interactive comment on “Weak layer fracture: facets and depth hoar” by I. Reiweger and J. Schweizer

Anonymous Referee #1

Received and published: 6 June 2013

The paper is very interesting and deserve the publication. It covers a subject of deep interest in the field of avalanches; the results presented are essential to model slab avalanches.

The paper is ready to be published but some questions should be addressed.

- 1) The description of the weak layer should be improved. It is not clear, but it is probably specified in other papers of the Authors, how it is obtained.
- 2) The loading of the specimen should be described in details. For instance, the loading device applies a normal and tangential load that are proportional one to the other and the same applies to the loading rates. Is it correct?
- 3) Reference at line 25, page 1915 (Bazant et al., FRAMCOS 2004) should be changed

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with a journal paper (generally easy to find).

4) A figure plotting strength vs. slope angle for different loading rates should be added to clarify the experimental results.

Interactive comment on The Cryosphere Discuss., 7, 1907, 2013.

TCD

7, C747–C748, 2013

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