

## ***Interactive comment on “Impact of rockfalls on protection measures: an experimental approach” by J. Yuan et al.***

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The authors would like to thank the reviewer for his valuable comments and suggestions, which undoubtedly improve the submitted manuscript. The manuscript has been revised by taking all these comments (please see the following for details.).

1. 109 tests were conducted in this study, and each experiment was repeated 3 times, so we had observed 327 experiments.
2. Glover (2014) indicated that the rock-shape is a key component and should be included in rockfall modelling. This has been cited in the revised manuscript (see line 7 in page 339).

C178

3. Labiouse and Heidenreich (2009) indicated that the spherical block had a higher rotation rate in its motion and less energy dissipated during the impacting process. The revised manuscript has cited this article (see line 10 in page 342).
4. Schellenberg and Volkwein (2007) carried out rockfall tests on six reinforced concrete slabs with a cushion layers and described the dynamic impacting processes in the structure. This study has shown that the reaction forces could be reduced substantially with a cushion system. This has been cited in the revised manuscript. (see line 15 in page 339 and line 18 in page 342).
5. The references “Markus, S. and Simone, P.” has been corrected to “Stoffel, M. and Perret, S.”. (see line 9 in page 350).

Please also note the supplement to this comment:

<http://www.nat-hazards-earth-syst-sci-discuss.net/3/C178/2015/nhessd-3-C178-2015-supplement.pdf>

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C179