

## ***Interactive comment on* “Short Communication: Monitoring rock falls with the Raspberry Shakes” by Andrea Manconi et al.**

**Andrea Manconi et al.**

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Dear Florian, thanks for your careful reading of our manuscript. Please find our initial replies to your criticism.

In the revised paper, we will focus more on monitoring results and performance evaluation of the Raspberry Shake (RS) at Moosfluh, better discussing how the low-cost, all-in-one solution design of RS is suitable for operation in high-mountain areas. In particular, as suggested, we will present specific challenges of using the RS in alpine environment concerning installation, system reliability, and data quality assessment. The methods of automatic detection and location are the focus of our current research. In this paper, we want to focus more on the performances of the instruments in alpine

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environment and we will better outline this part in the revised version. We will revise the introduction, skipping general considerations not related to the topic and reducing some parts about remote sensing. Concerning Section 2, we will move all technical details (bits for dynamic range, analog chain of processing, resistivity of Geophone, A/D sampling) to the supplementary material, where we will also include some information on the range of available RS models, power consumption, time synchronization. Section 3: we will expand the site description presenting other studies and monitoring activities performed in the same area. We will present a comparison of PPSD of the RS for different time periods (winter vs summer) against a broadband station (CH.FIESA). Section 4: as already outlined in a previous reply, most of the additional information required is part of our current research activity and is not the focus of this manuscript. Thanks for all specific remarks, we will address these in the revised version.

Best regards, Andrea Manconi and coauthors

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