

Interactive comment on “Inhomogeneous precursor characteristics of rock with prefabricated cracks before fracture and its implication for earthquake monitoring” by Andong Xu et al.

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We would like to thank you for your positive comments, as well as the suggestions to improve the manuscript. Our starting point is to try to make a different type of analysis to link the laboratory observations with natural seismicity by comparing their similar characteristics. In the abstract, we emphasize the research contents and results of this paper. The induction and generalization of the existing problems, which leads us to do the work is explained in the introduction part. Firstly, we introduce that laboratory rock experiments are an effective method to study the properties of rocks and faults

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while directly measure these properties is extremely difficult. Secondly, we attempt to establish the relationship between laboratory observations and naturally seismicity, which is the existing and unsolved problem in this research field, by comparing the similar characteristics of them. Thirdly, we detailedly describe the theoretical basis, steps of our work and its implication for earthquake monitoring. We follow this logic, which we think is more reasonable and fluent.

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