

Interactive comment on “Factors controlling the sequence of asperity failures in a fault model” by Emanuele Lorenzano and Michele Dragoni

F. Rossetti (Editor)

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Dear Dr. Lorenzano,

based on the reviewers' reports and my own assessment of the review process, my evaluation is your manuscript needs re-thinking and re-organisation.

The main issue regards the relevance of the study to the “real earthquake” system. Based on the audience of the Journal, it is necessary to better introduce and discuss limitation of the scientific rationale adopted in the study and try to finger out possible insights and implications on the understanding of the earthquake source region. Furthermore, I noted a series of recent papers with your authorship with similar and somehow overlapping topics with those presented in your submitted manuscript. It is

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therefore compulsory that all background information (including other relevant literature in the field) is clearly referenced and the scope and motivation of the study better detailed in the revised manuscript: which the expected advancement of knowledge with respect to the state-of-the art?

To conclude, broader impact of the proposed research is thus largely (and critically) depending on how the obtained results can be extrapolated to improve our knowledge on the main physical properties that control the fault mechanics and the earthquake cycle (rupture and recurrence) in general.

Sincerely, Federico Rossetti

Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2018-31>, 2018.

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