

## ***Interactive comment on “Polyphase evolution of a crustal-scale shear zone during progressive exhumation from ductile to brittle behaviour: a case study from Calabria, Italy” by E. Fazio et al.***

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Dear anonymous reviewer, we would like to thank you for your criticism about our manuscript and for your precious suggestions. We agree with your overall impression, and we agree to rewrite it by focusing the paper on one topic, clearly stating what is already known from the previous studies and what is new. Nevertheless, we disagree with your opinion about the segmentation process of the selected quartz domain shown on Fig. 11a, which even if it is lacking of some subgrains it reflects the edges of underlying grains. Probably the fitting of grain boundaries is no satisfactory and of course we should remake the segmentation process again in order to improve the

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outlines of the grain boundary map. Please consider that it has been inferred by means of an automatically software routine and not manually. Thank you very much for the time you've spent on the review. We really appreciated your careful evaluation. Best regards, Eugenio Fazio on behalf of co-authors

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Interactive comment on Solid Earth Discuss., 7, 909, 2015.