

## ***Interactive comment on “Optimality and inference in hydrology from entropy production considerations: synthetic hillslope numerical experiments” by S. J. Kollet***

**S. Kollet**

s.kollet@fz-juelich.de

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Thank you for the note. I fully agree with the Referee that consistency in units is important and helps the reader in the understanding of the theory, results and discussion. Emphasis will be placed on this aspect in the revised manuscript. This will certainly also include details of the entropy balance including the fluxes in and out of the domain. I also find that this leads to useful consistency checks at the microscopic and macroscopic scales. In my opinion, this also helps in connecting the different components of the entropy balance in the interpretation of the results.

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Unfortunately, the units for the entropy production on 5125, 17 are a typographical error. It is correct that the units of P on line 25 were normalized by the specific weight of water, which was stated on line 22 in the original manuscript.

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