

Review for revised manuscript: Rarefied particle motions on hillslopes: 1. Theory

This beautifully written revised version of “Rarefied particle motions on hillslopes: 1. Theory” reads very well and addresses my previous concerns (and those of Joris Heyman). The introduction does a much better job of explaining the state of the field and laying out the rest of the paper, as well as the remaining 3 papers in the series. Added material better identifies the scope of the study and implications beyond hillslope geomorphology. Upon a second close reading, I would like to applaud the extent to which the authors carefully and logically describe the study; while the high level of detail at first may seem daunting, in reality it allows readers with little to no knowledge of statistical mechanics (e.g., me) to not only follow the gist of the story, but to obtain some understanding of the new material (the appendices especially help with this) and really delve into the details if desired.