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Dear Dr. Woods,

We hope this letter finds you well. We have completed our response to the reviewer, which is attached below this cover letter (and uploaded separately with resubmission). Based on our discussion over email on the reformatting of the original draft, we have done our best to reshuffle the paper's contents. We think the updated draft best matches the Nature format while keeping it accessible to the reader. However the Methods is longer than conventional, so please let us know if you have any suggestions on what we should move to the Supplementary Information, if necessary.

We have also added data and code availability statements. At the moment, our main results table is in Extended Data, as we don't think it is necessary to include it in the main text. Ideally we would publish this table digitally along with the article (as well as host it on Vizier). If you have any input on whether this table should be (partially) included in the main text, or other thoughts on how to best present it in the Nature Astronomy format, we would be grateful also.

The word count breakdown is as follows:

- Abstract: 196
- Introduction: 500
- Main body (incl. Introduction): 2721
- Methods: 5145
- Supplementary Information: 2544

And the number of figures, tables and references are as follows:

- Main body: 4 figures (1.2 MB), 51 references
- Methods: 0 figures, 57 references
- Supplementary Information: 1 figure (298 KB), 25 references
- Extended Data: 5 Figures (1.1 MB), 1 Table (4 pages, 29 KB), 10 references

The references in the **Extended Data** are numbered following the references listed under Methods.

Yours sincerely,



Oliver J. Hall, on behalf of the authors.