



Room 503, Cosmology Building
National Taiwan University
No. 1, Sec. 4, Roosevelt Rd.
Taipei City 106, Taiwan
(台北市羅斯福路四段1號
台灣大學宇宙學大樓503室)

March 3, 2025

Involve, a Journal of Mathematics
Mathematical Sciences Publishers

Dear Professor Li,

I am submitting the paper *The Möbius function of the poset of triangular numbers under divisibility*, joint work with Rohan Pandey, for publication in *Involve*. This work was primarily completed while I was a postdoc at the University of Washington, and Rohan was in high school and later was an undergraduate student at UW. We attest that at least one-third of the authors of this paper are high-school, undergraduate, or graduate students.

In this paper, we investigate the partial order consisting of the triangular numbers under the relation of integer divisibility. This investigation is entirely experimental at this stage; we collect data and make conjectures on the asymptotic behavior of this Möbius function. The data on the Möbius function is generated using code written in Python.

As potential reviewers, we suggest Jean-Paul Cardinal, Randell Heyman, Tadej Kotnik, and Nathan Ng.

Thank you for your time and consideration. I look forward to your reply.

Sincerely yours,

A handwritten signature in black ink, which appears to read "Harry Richman".

David Harry Richman

Email: hrichman@ncts.ntu.tw.edu