James Evans University of Michigan jamwevan@umich.edu May 8, 2025

Editorial Board Rose-Hulman Undergraduate Mathematics Journal

Dear Editors,

I am writing to submit my paper, titled Failure of Converse Theorems of Gauss Sums Modulo ℓ , for consideration for publication in the Rose-Hulman Undergraduate Mathematics Journal. This research was conducted at the University of Michigan between January 8, 2025, and May 8, 2025, as part of my undergraduate studies.

My sponsor for this submission is:

Name: [Sponsor's Full Name]
Affiliation: [Department, University]
Email: [sponsor.email@university.edu]

Please do not hesitate to contact me if any additional information or documentation is needed regarding the paper or its contents. I appreciate your time and consideration, and I look forward to the opportunity to share my work with the broader mathematical community.

Sincerely, James Evans