

Review of: "Aerodynamic Design and Performance Analysis of Mars Ascent Vehicles"

Xiaolu Wang;¹

¹ Zhengzhou University of Aeronautics

Potential competing interests: No potential competing interests to declare.

This paper focuses on the aerodynamic performance of Mars ascent vehicles. Several shapes were simulated and analysed. Some problems are addressed:

1. Can you elaborate on how a more detailed discussion of shockwave dynamics might impact the interpretation of the aerodynamic performance results?
2. Could you suggest specific types of comparisons or data that would enhance the analysis of the most effective vehicle shape from an aerodynamic and thermal standpoint?
3. As the temperature may be high for hypersonic flight, why did the authors set the wall as isothermal at 300 K?
4. Lots of 'Error! Reference source not found' in this paper.