

A full scale computational model of Space Mountain

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Abstract: Space Mountain is a ride that is loved by millions. It gives you the feeling that you are travelling through space (if you did not have to worry about oxygen.) In this paper, the authors describe the new design of the ride and illustrate the effect it will have on guest with numerical examples.

1. INTRODUCTION

It should be noted that we are updating the current version of space mountain [1]. Section 2 briefly describe the current version and why we want to update the ride. Section 2.1 describes the changes made to the new ride. Finally, Section 2.2 illustrates the performance of the ride with numerical examples.

2. CURRENT VERSION

2.1. **New version.** Figure 1 illustrates the new track design.

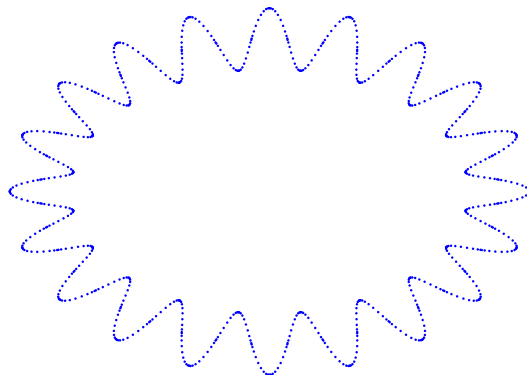


FIGURE 1. Plot of the ride

2.2. **Numerical Experiments.**

REFERENCES

- [1] W. Disney, *Design plans for space mountain*, Journal of Roller Coaster Physics **221** (1970), 288–302.