Catalina 1 Analytic vs. Numerical Solution

June 15, 2020

1 Problem

Compute the analytic and numerical solutions of the following shallow water problem:

$$\eta = e^{-(x-5)^2}$$
$$u = 0$$
$$h = x$$
$$m = \infty$$

2 Setup

2.1 Numerical

2.2 Anaylytic

3 Statistical Analysis

4 Problems