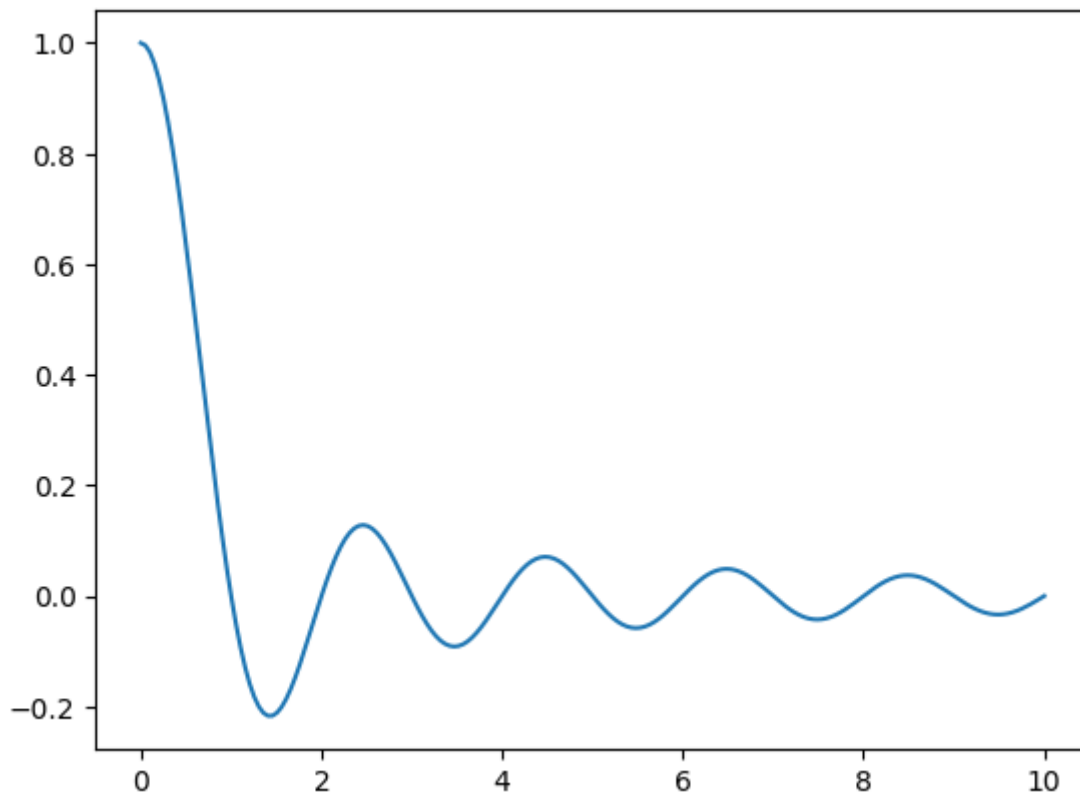


Assignment 8 Report

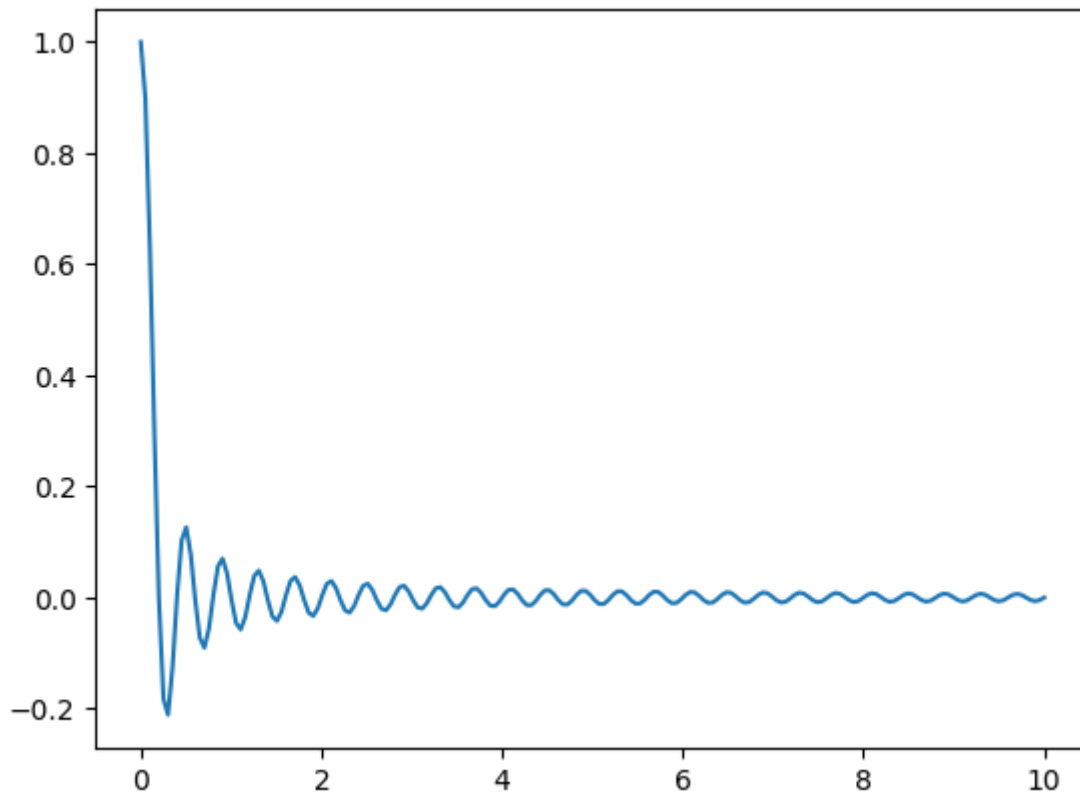
- The plots for all the all the asnwrs as well as for the results of the dataset are given below.

Plots for the Source WaveForm

- $C = 1$ here.
- Plot 1 with $\text{SincP} = 1$

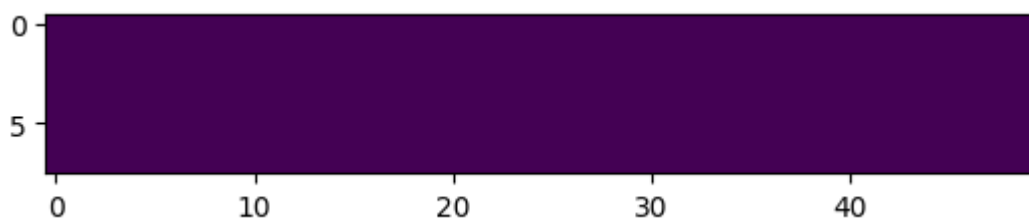


- Plot 2 with $\text{SincP} = 5$

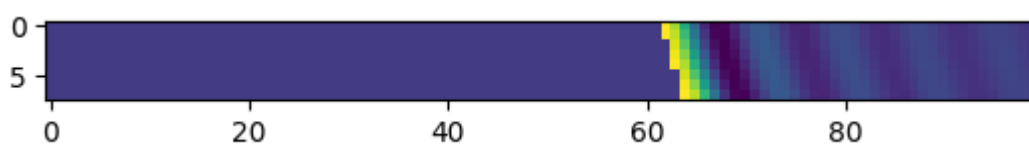


Plots for the Object Location

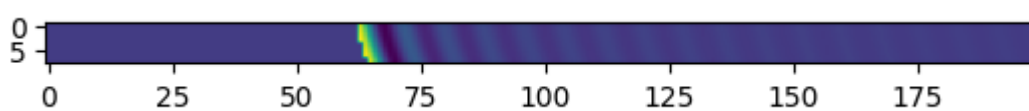
- Here we keep changing the Nmics and Nsamples and get different heatmaps.
- These were all taken for Obstacle location = (3, -1)
- Nmics = 8 and Nsamp = 50



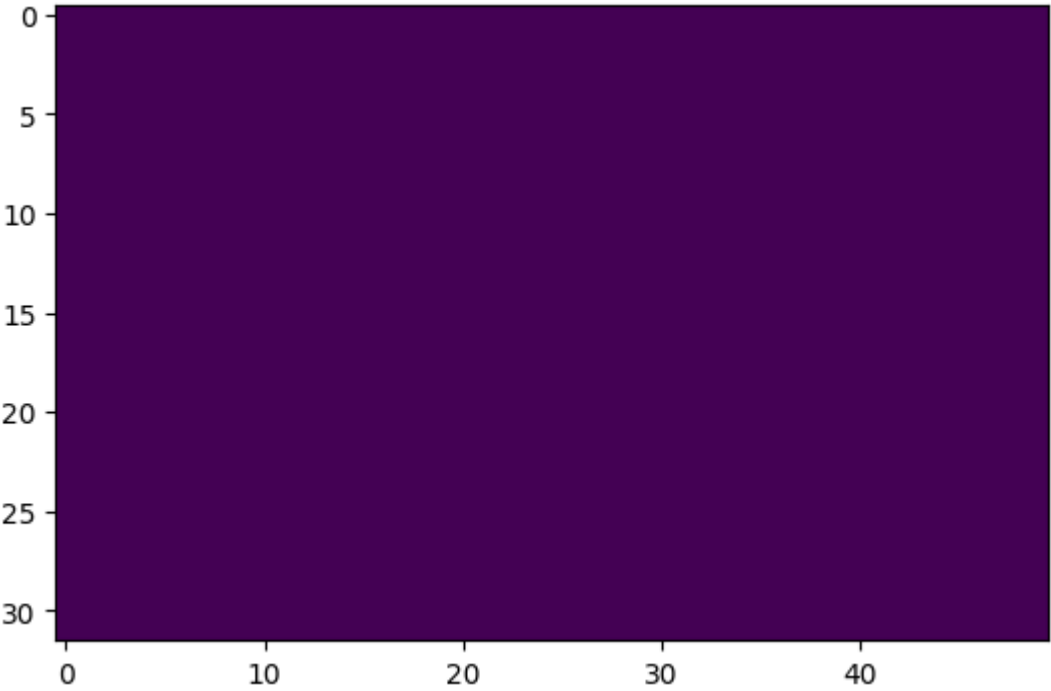
- Nmics = 8 and Nsamp = 100



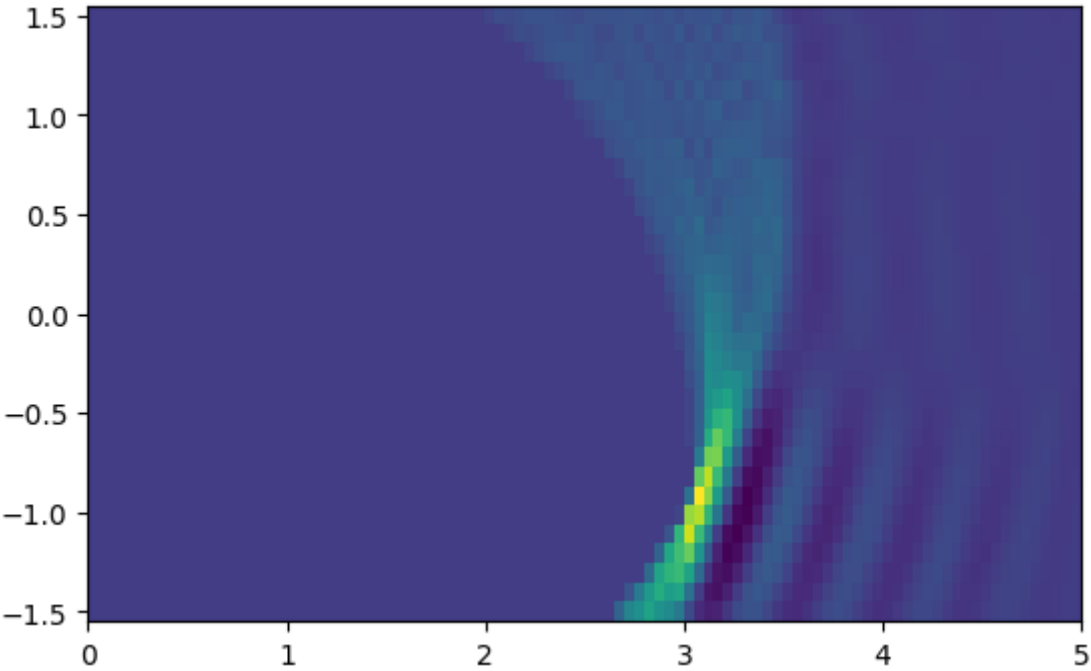
- Nmics = 8 and Nsamp = 200



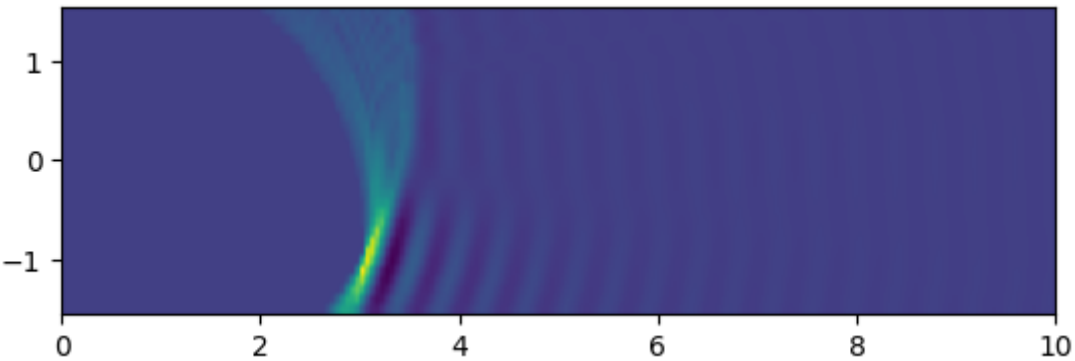
- Nmics = 32 and Nsamp = 50



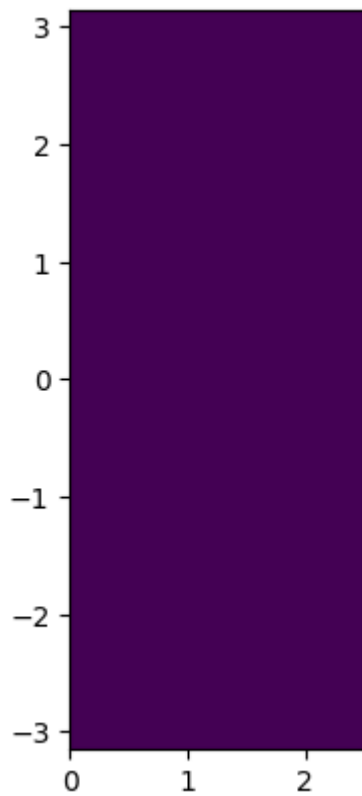
- Nmics = 32 and Nsamp = 100



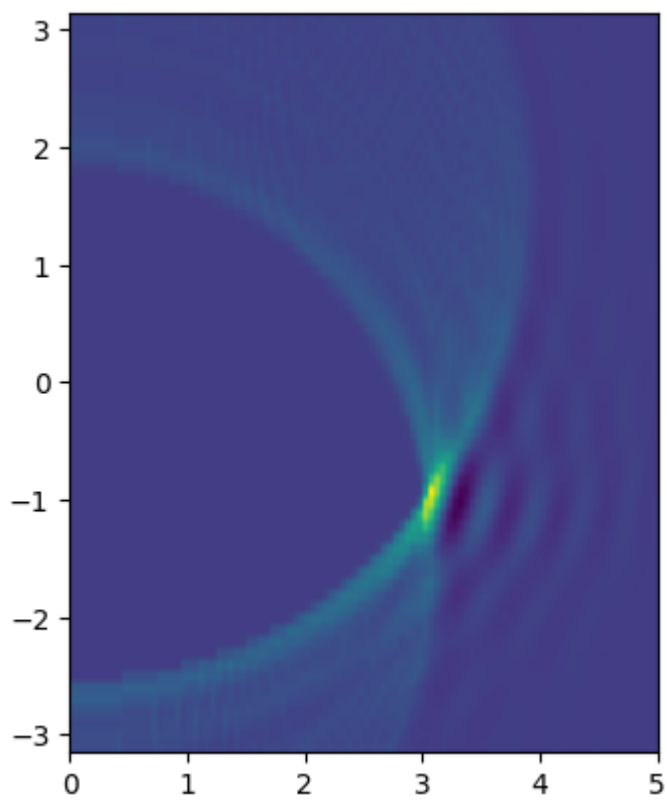
- Nmics = 32 and Nsamp = 200



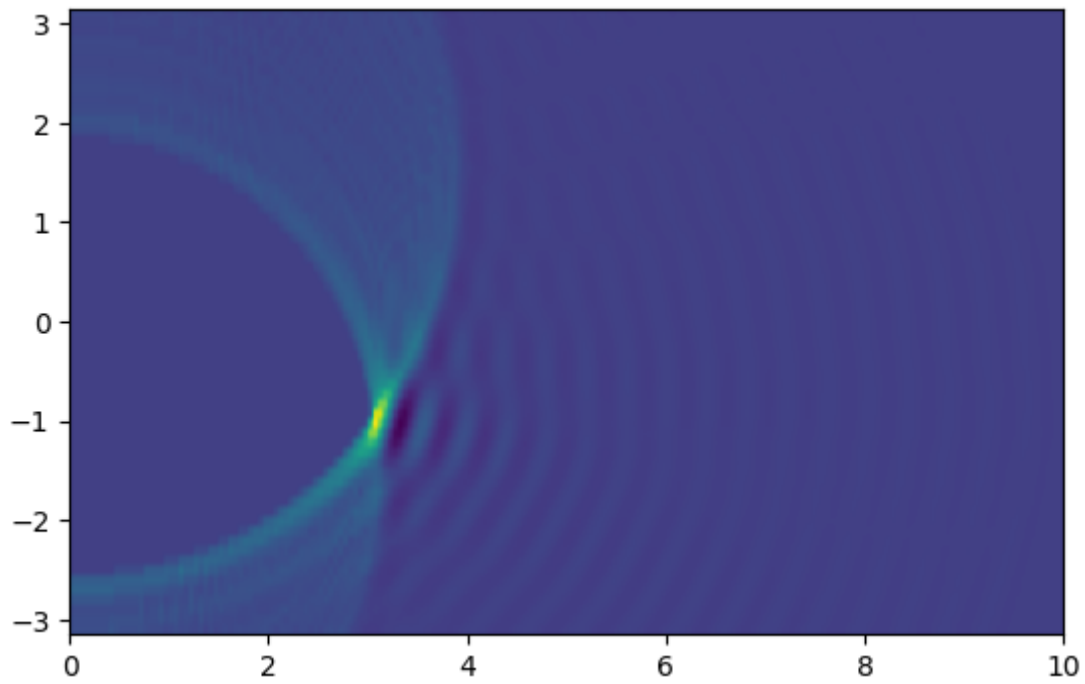
- Nmics = 64 and Nsamp = 50



- Nmics = 64 and Nsamp = 100

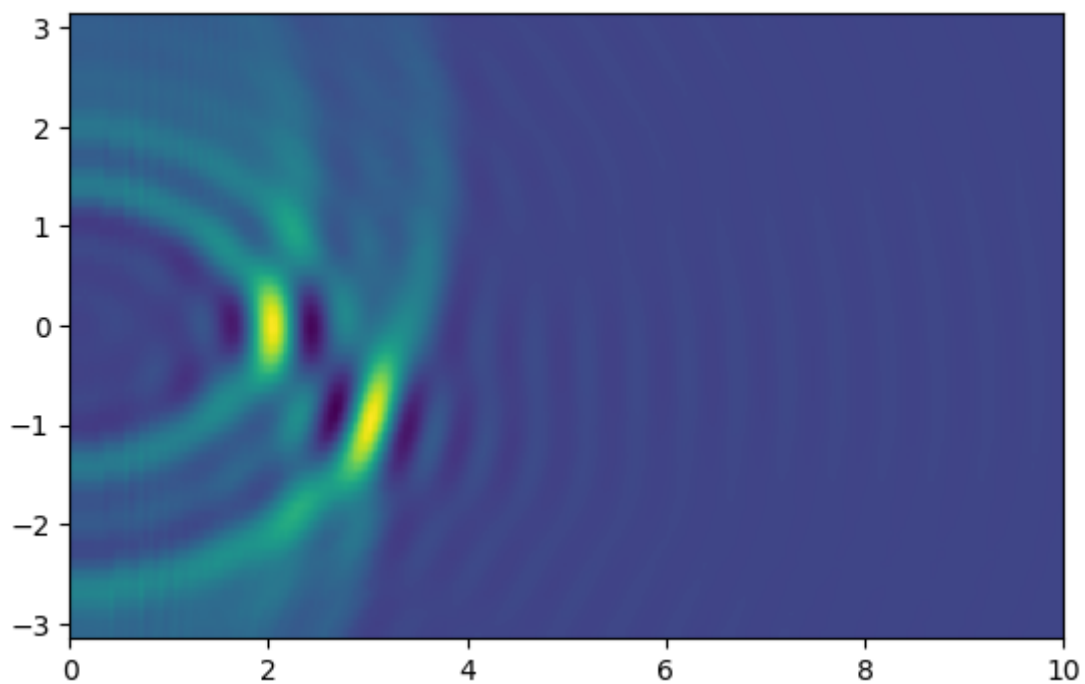


- Nmics = 64 and Nsamp = 200



Plots for Reconstructed data from the given dataset

- Here the axes represent the coordinates system.
- `rx2.txt`



- `r3.txt`

