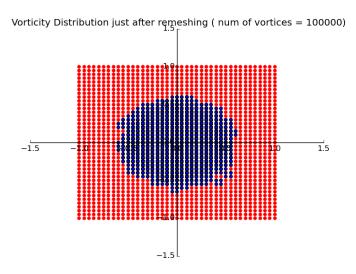
## AE 625 -Particle Methods in Fluid Flow Simulation

## Assignment 6: Report Diffusion of a point Vortex using RVM

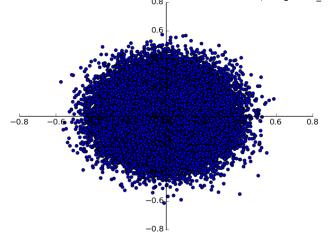
Aditi Taneja

## Remeshing and Vortex Blob distribution and Relative Error Distribution

Gridsize = 41 \* 41  $x\_limit = -2to2$  $y\_limit = -2to2$ 



ticity distribution after 1 sec with num of vortices = 100000.(Using delta\_t = 0.:



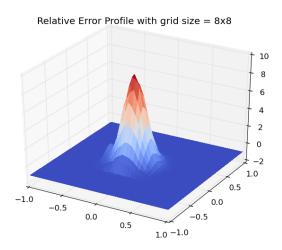


Figure 1: Comparision between the RVM method and Exact Solution

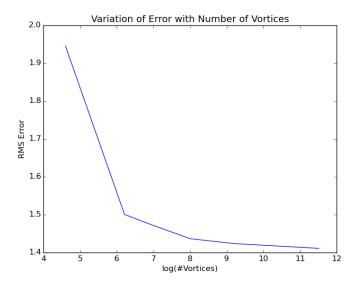


Figure 2: Variation of RMS error with number of vortices