

Fluid Dynamics Assignment II

Note that the concentration bar is changing

The initial values according to my roll number are as follows $(x_0, y_0) = (4.283, 1.717)$

The plots are as follows:-

$D = 0.001$

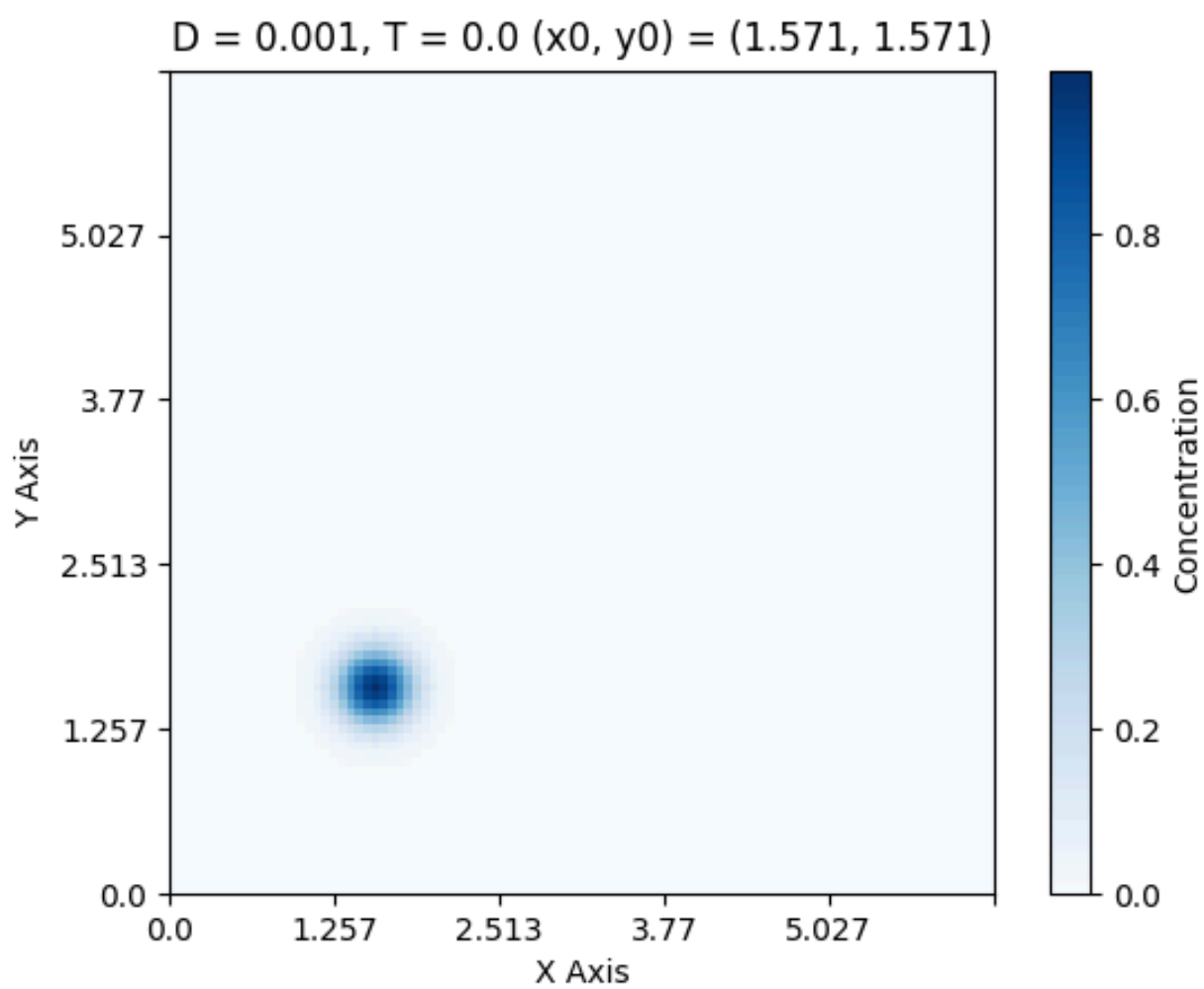
- $x_0, y_0 = \pi / 2, \pi / 2$
- $x_0, y_0 = \pi, \pi$
- $x_0, y_0 = 4.283, 1.717$

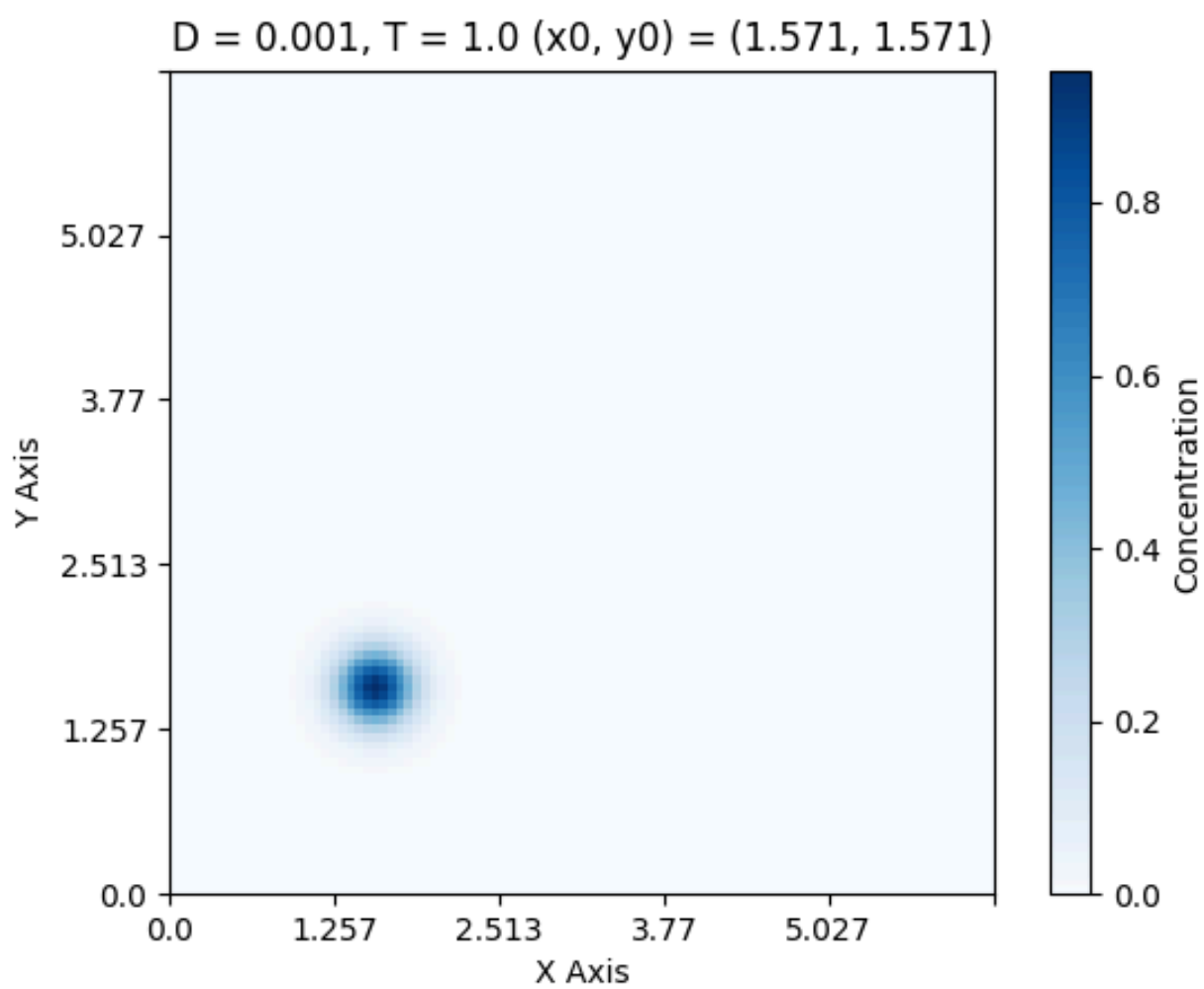
$D = 0.01$

- $x_0, y_0 = \pi / 2, \pi / 2$
- $x_0, y_0 = \pi, \pi$
- $x_0, y_0 = 4.283, 1.717$

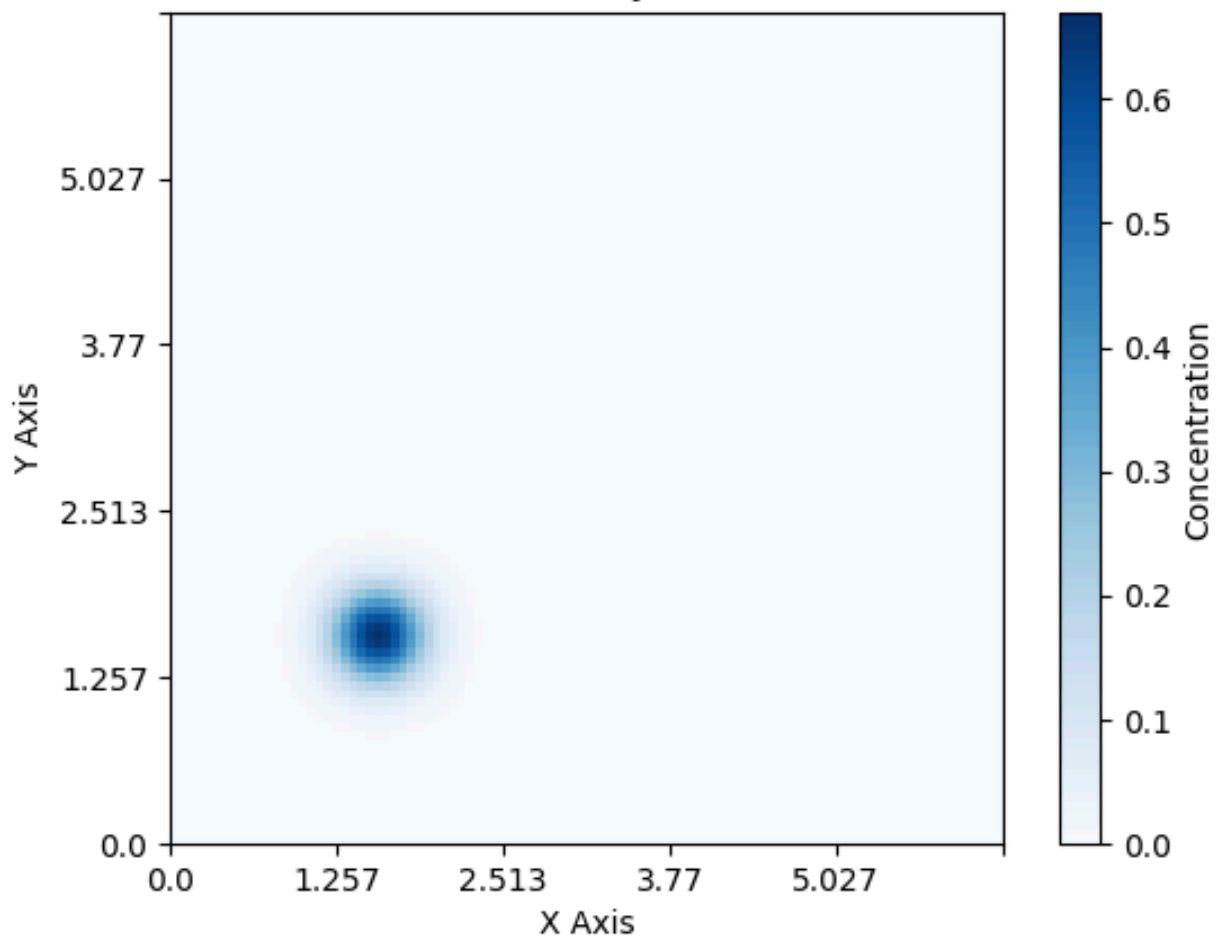
$D = 0.1$

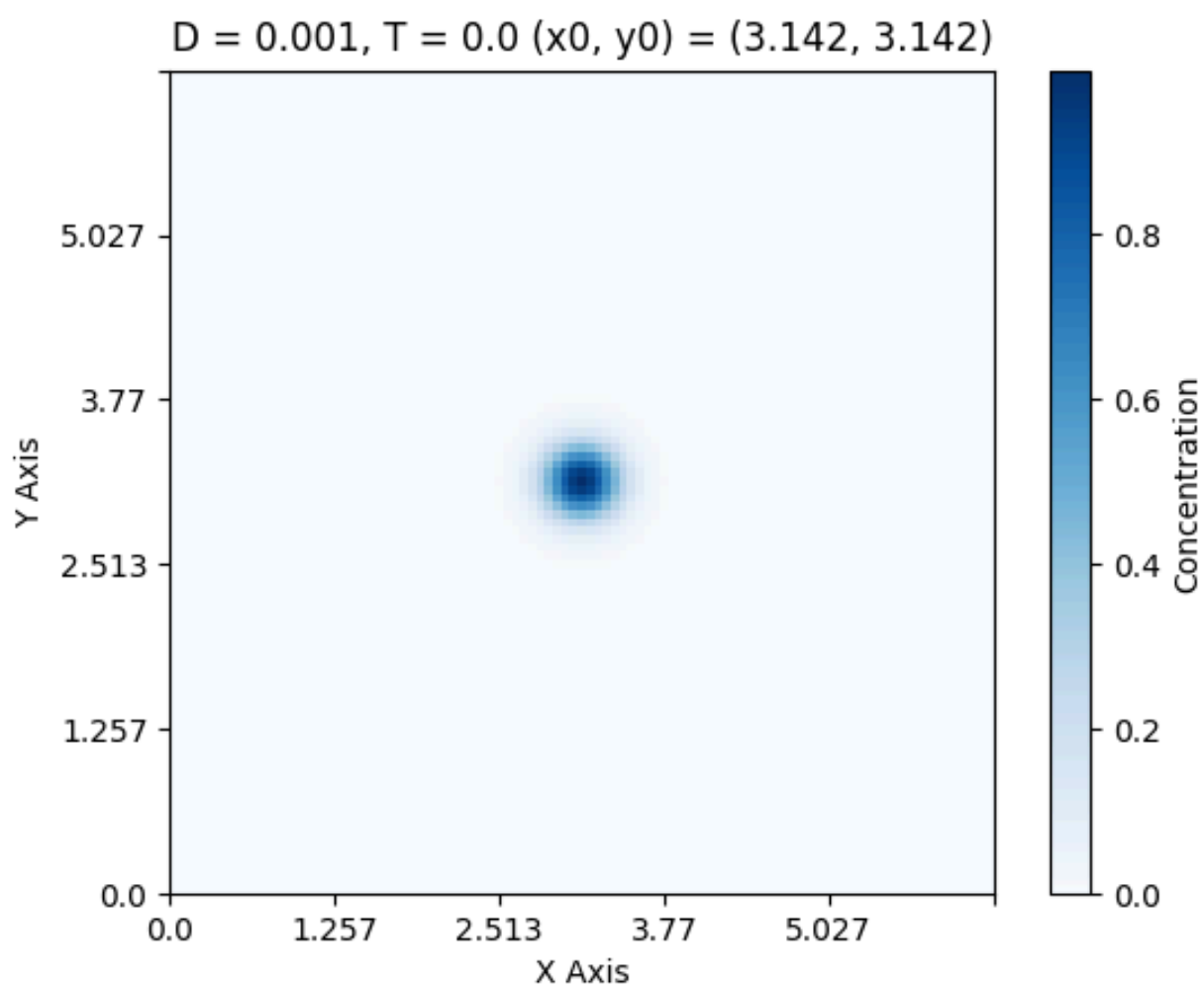
- $x_0, y_0 = \pi / 2, \pi / 2$
- $x_0, y_0 = \pi, \pi$
- $x_0, y_0 = 4.283, 1.717$

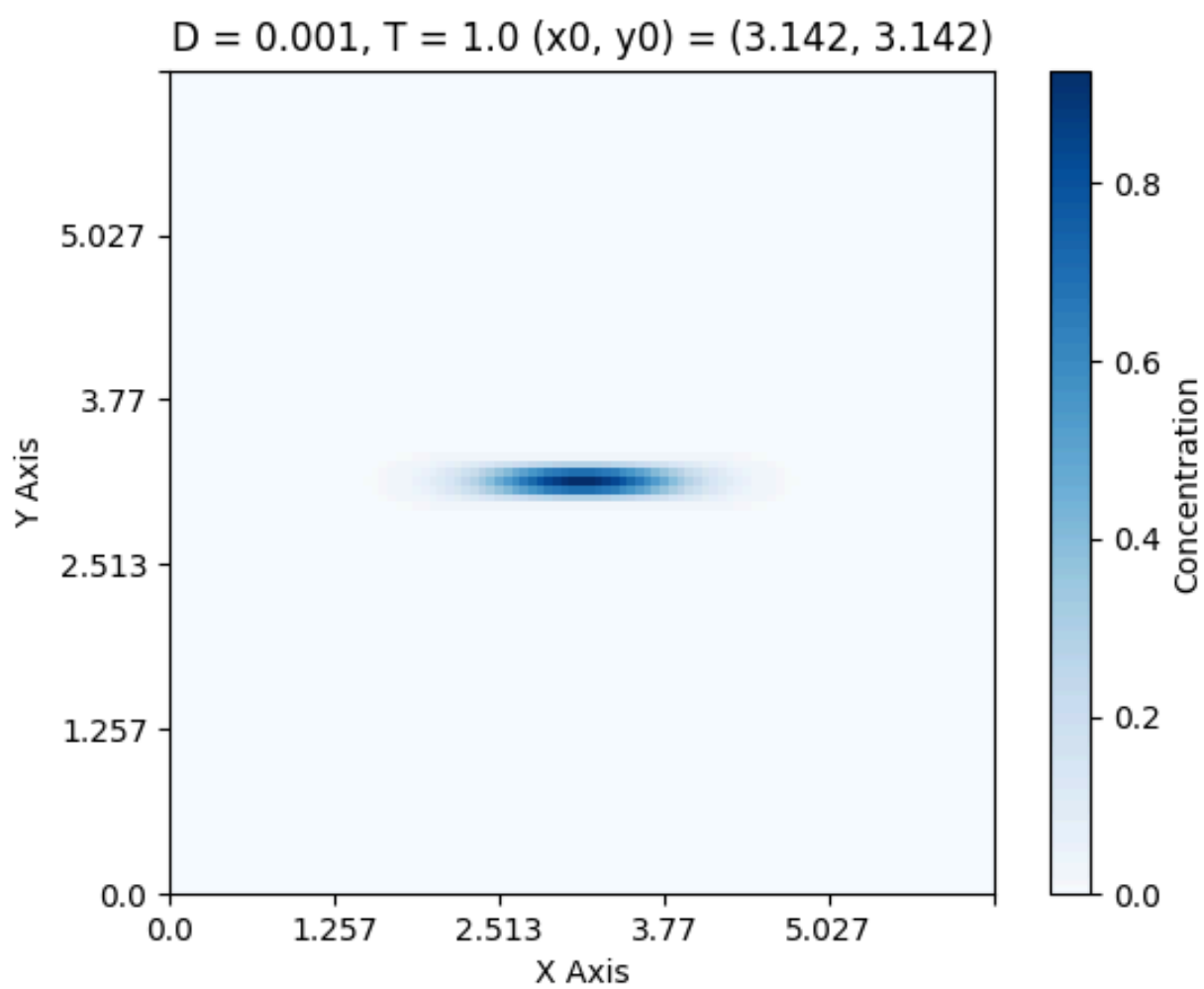




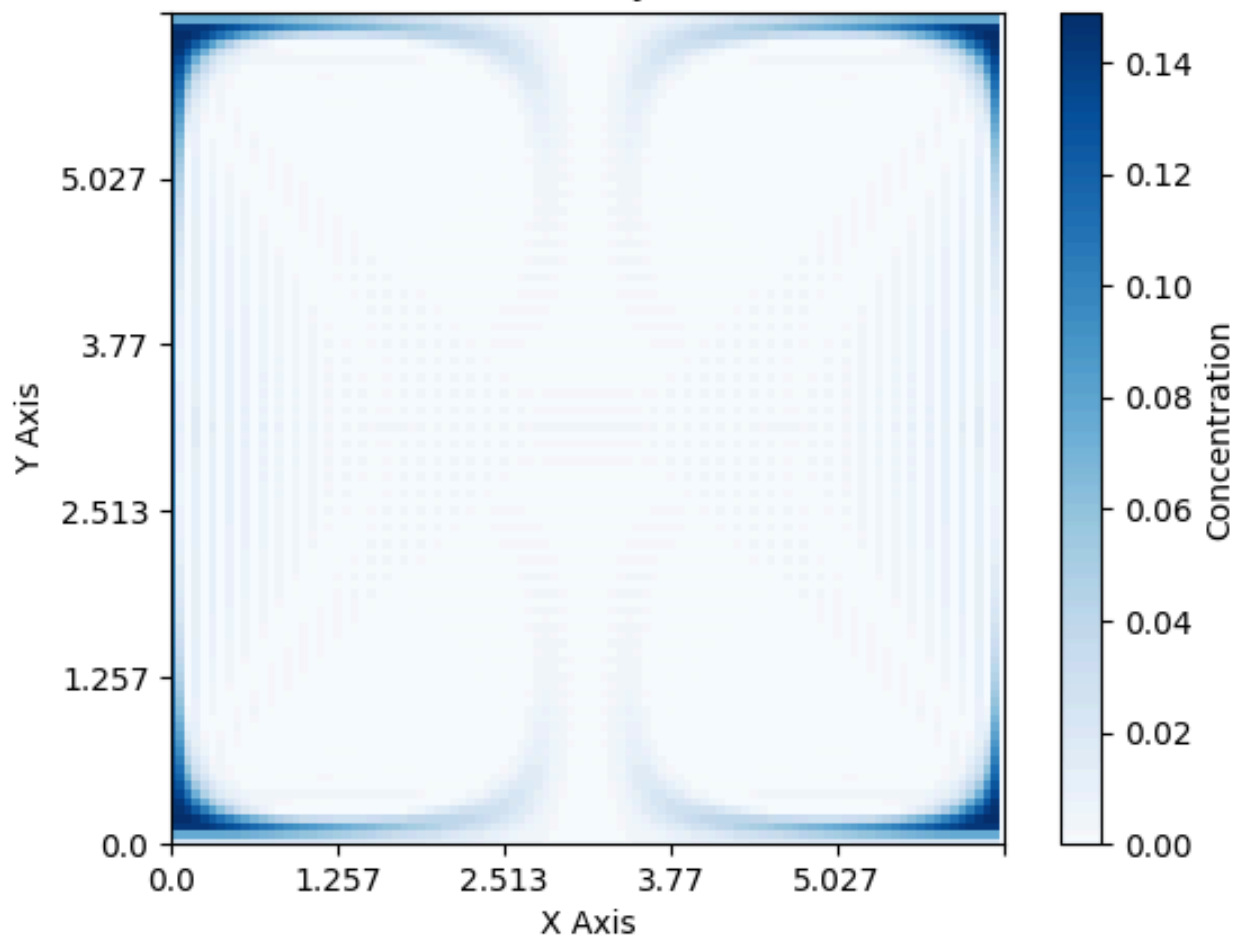
$D = 0.001, T = 10.0 (x_0, y_0) = (1.571, 1.571)$

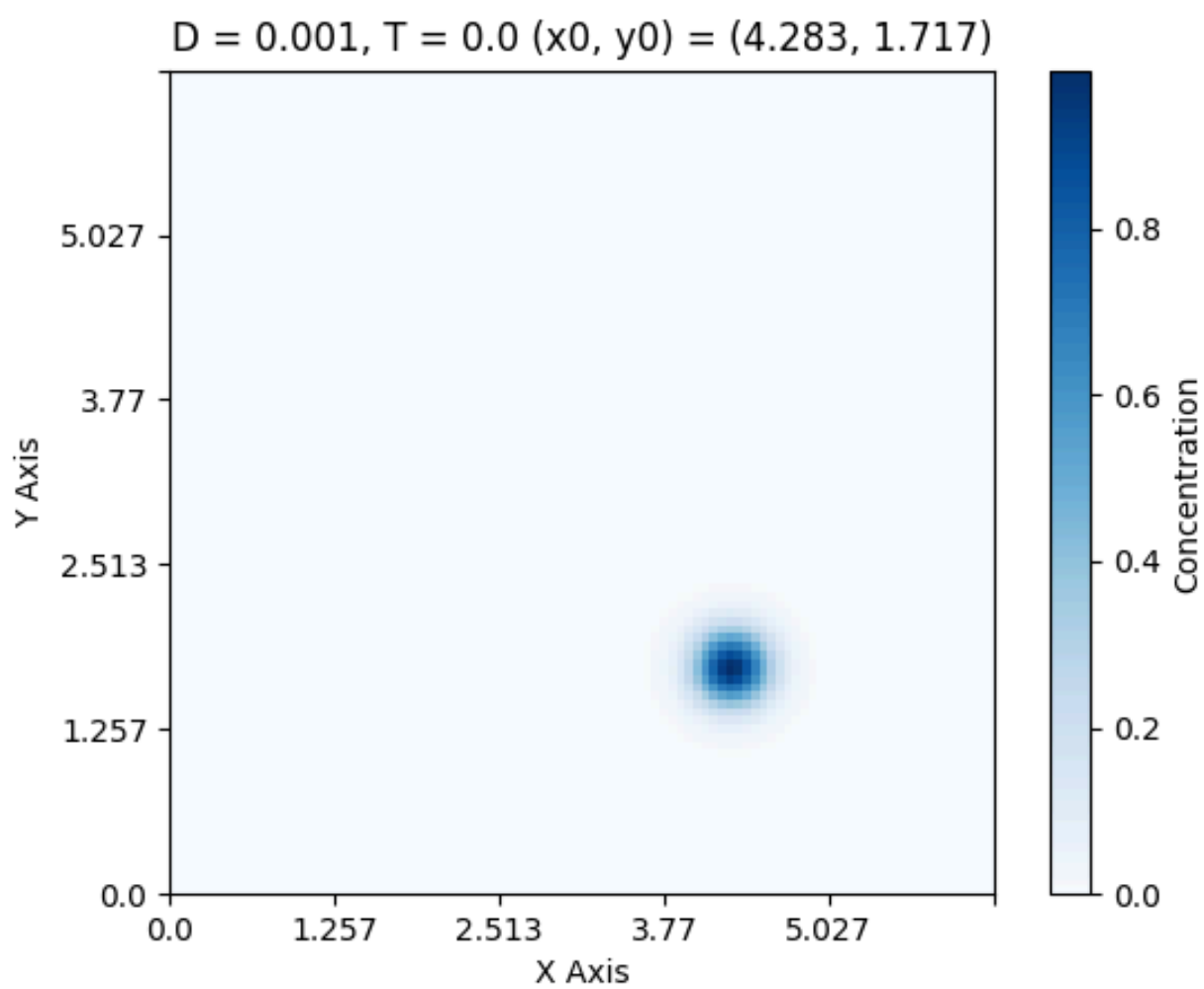


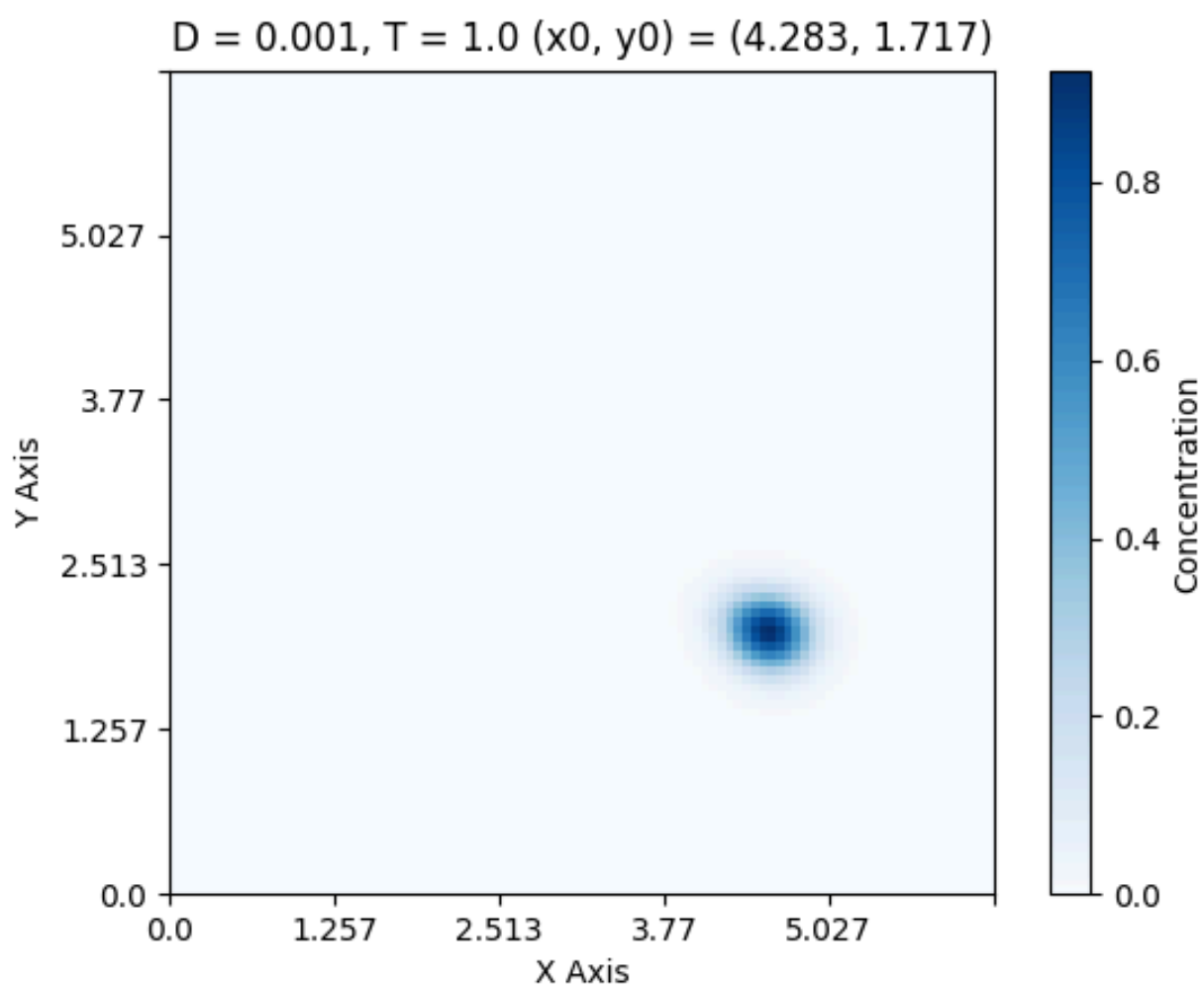




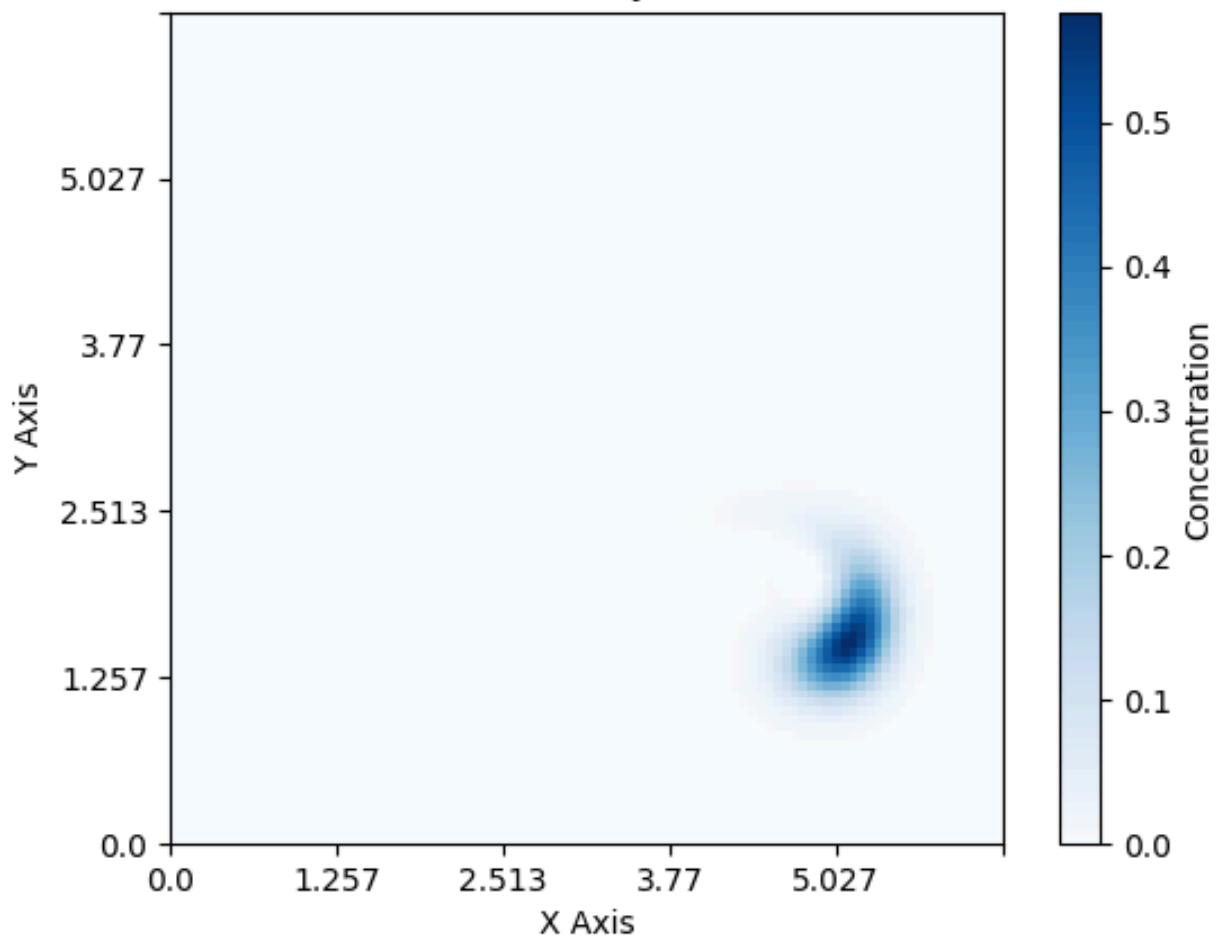
$D = 0.001$, $T = 10.0$ (x_0, y_0) = (3.142, 3.142)

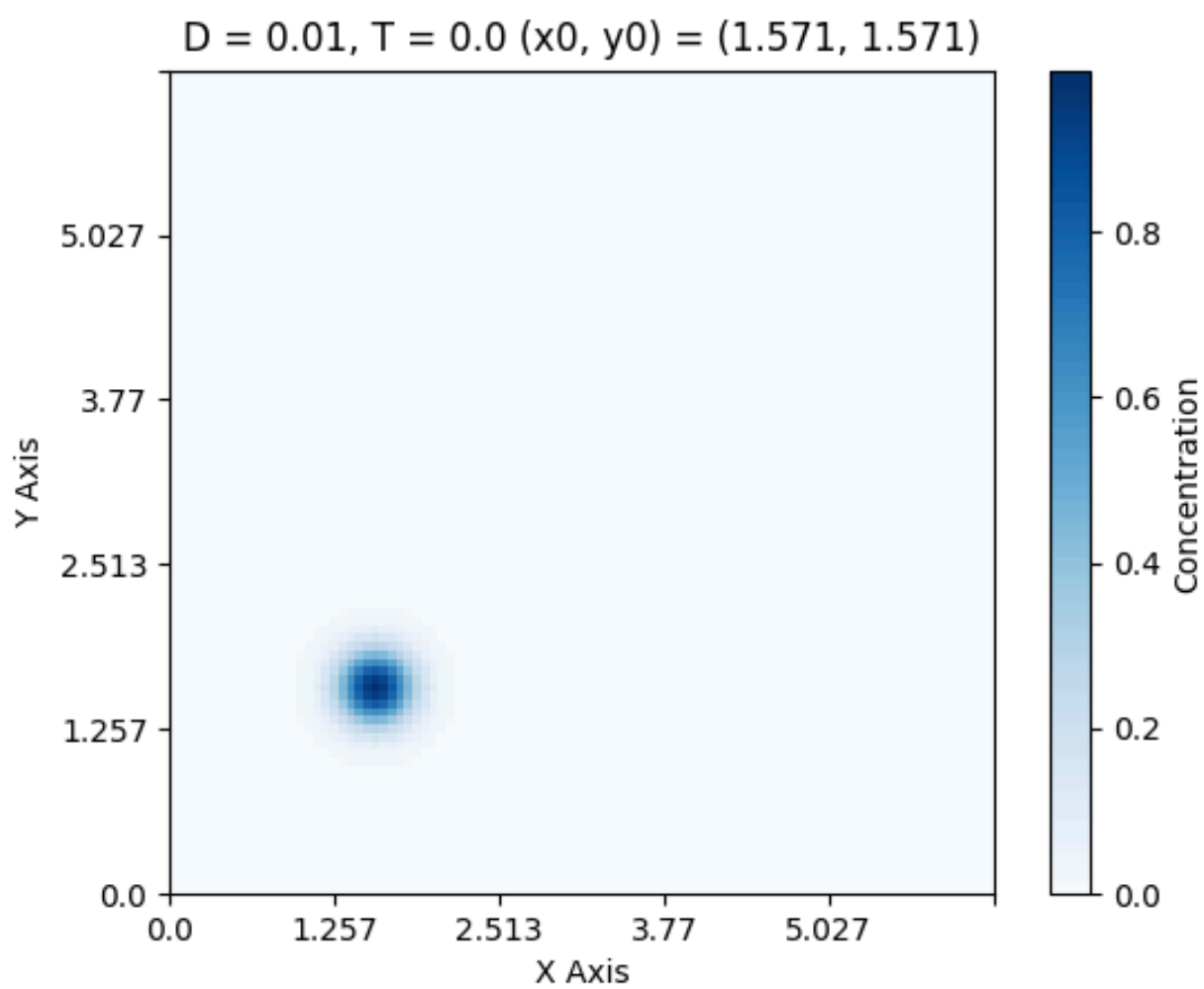


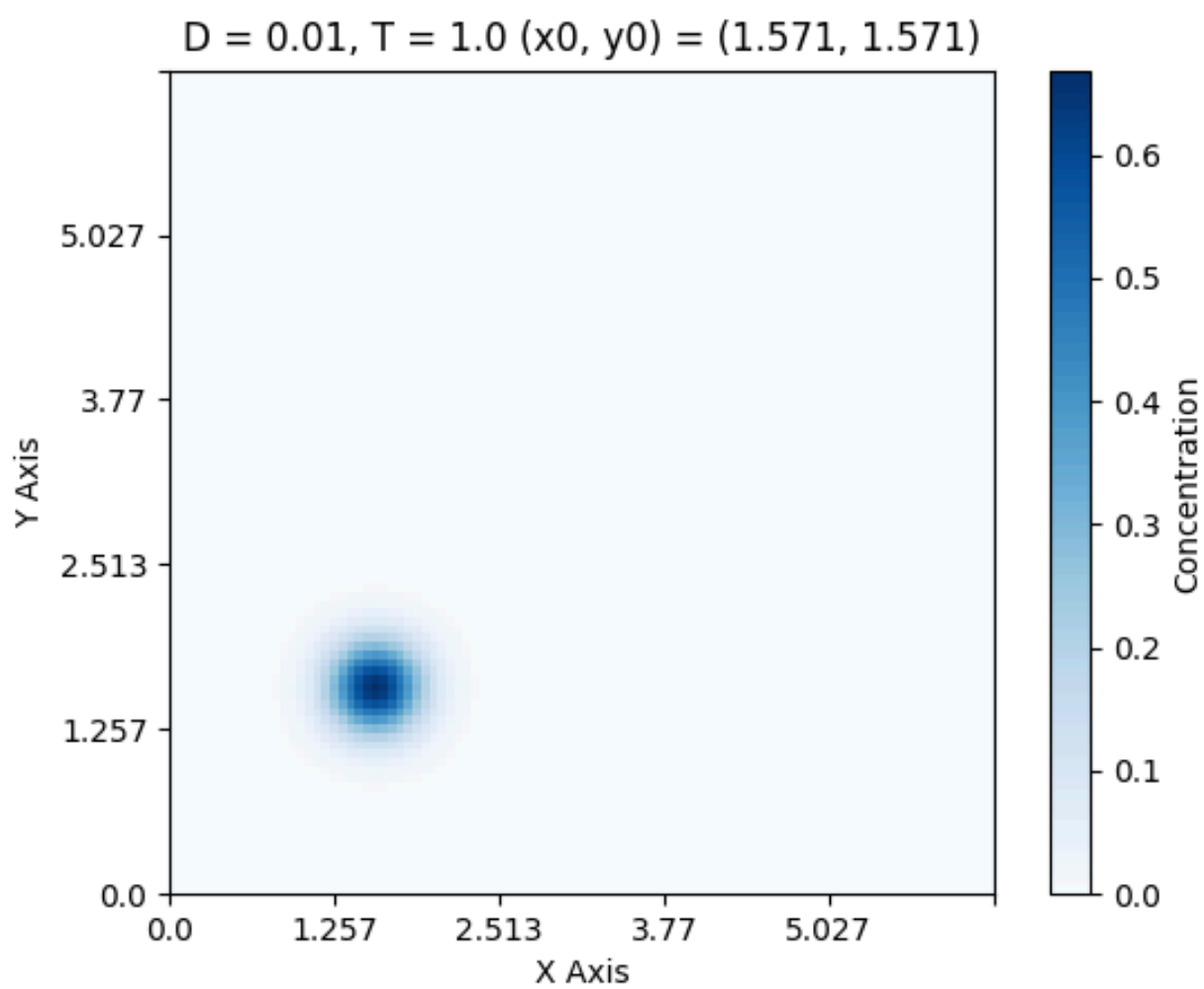


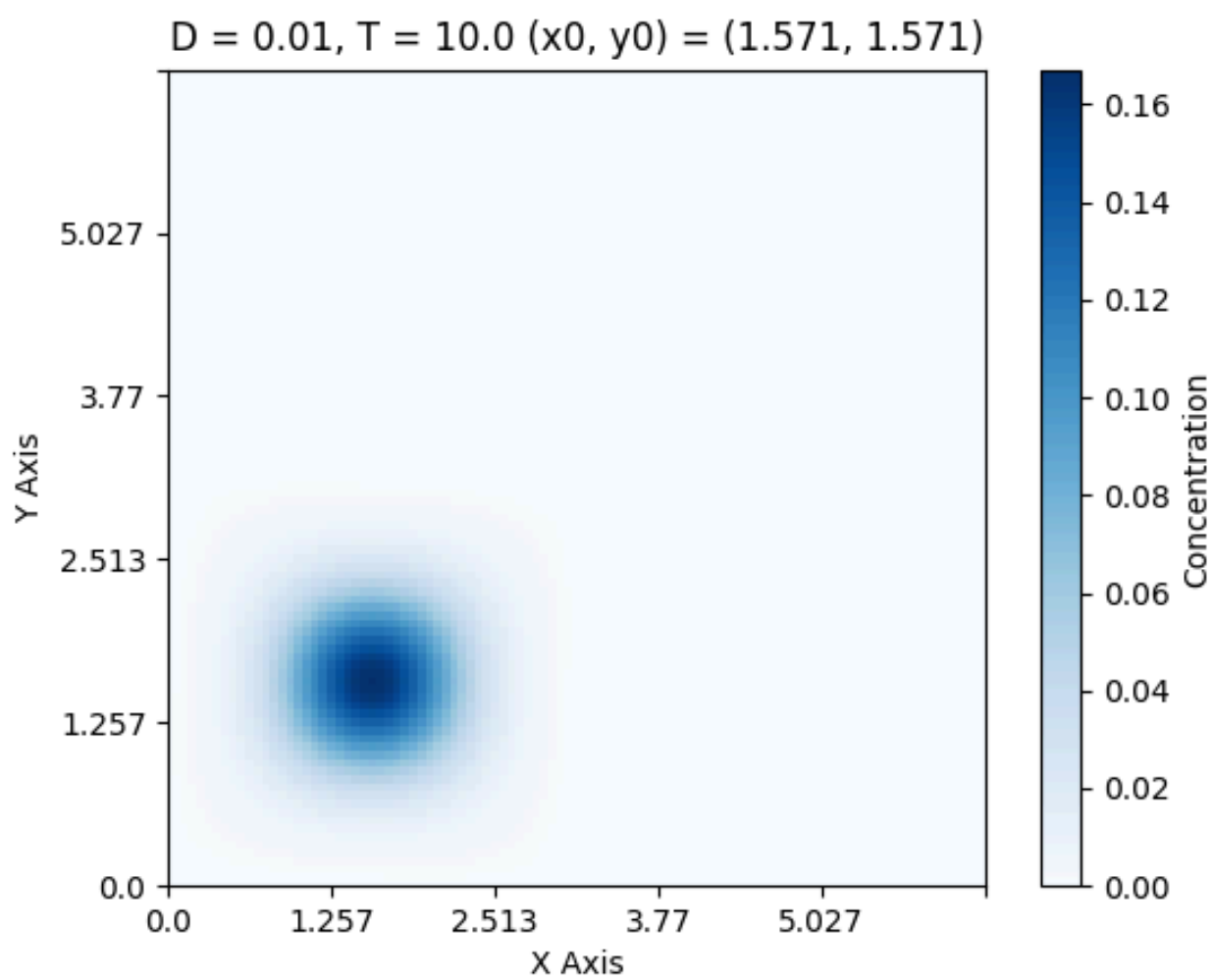


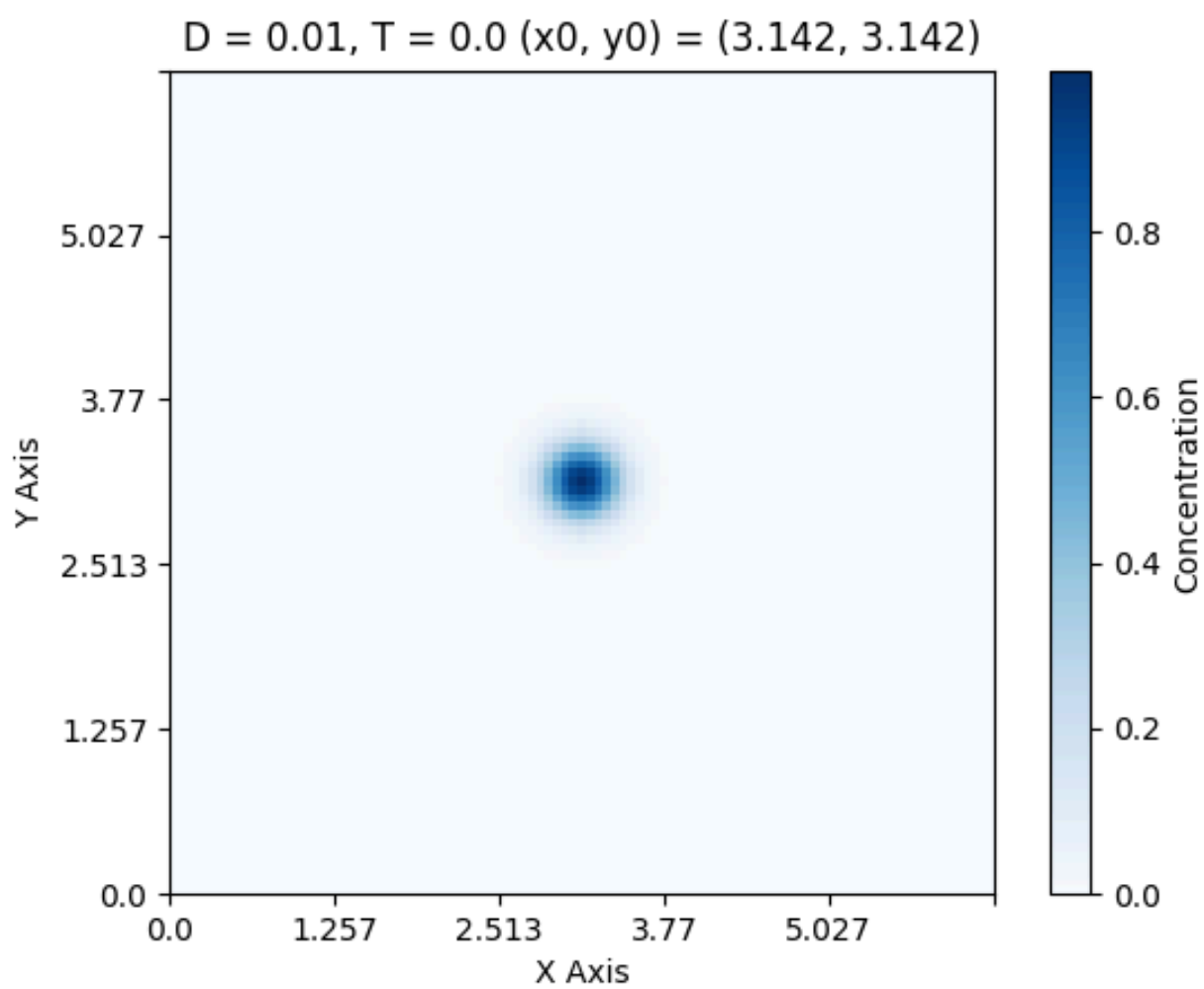
$D = 0.001, T = 10.0 (x_0, y_0) = (4.283, 1.717)$

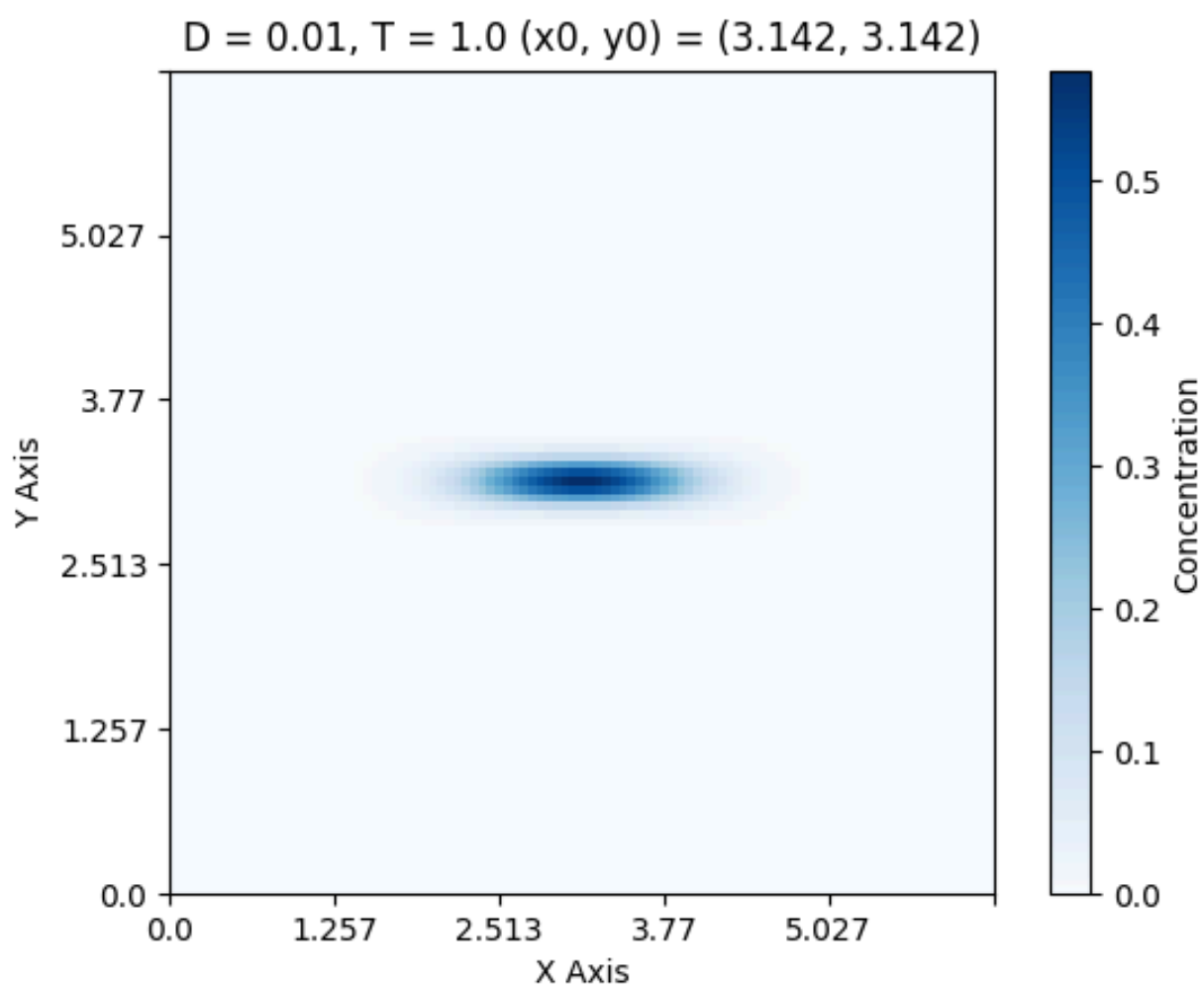




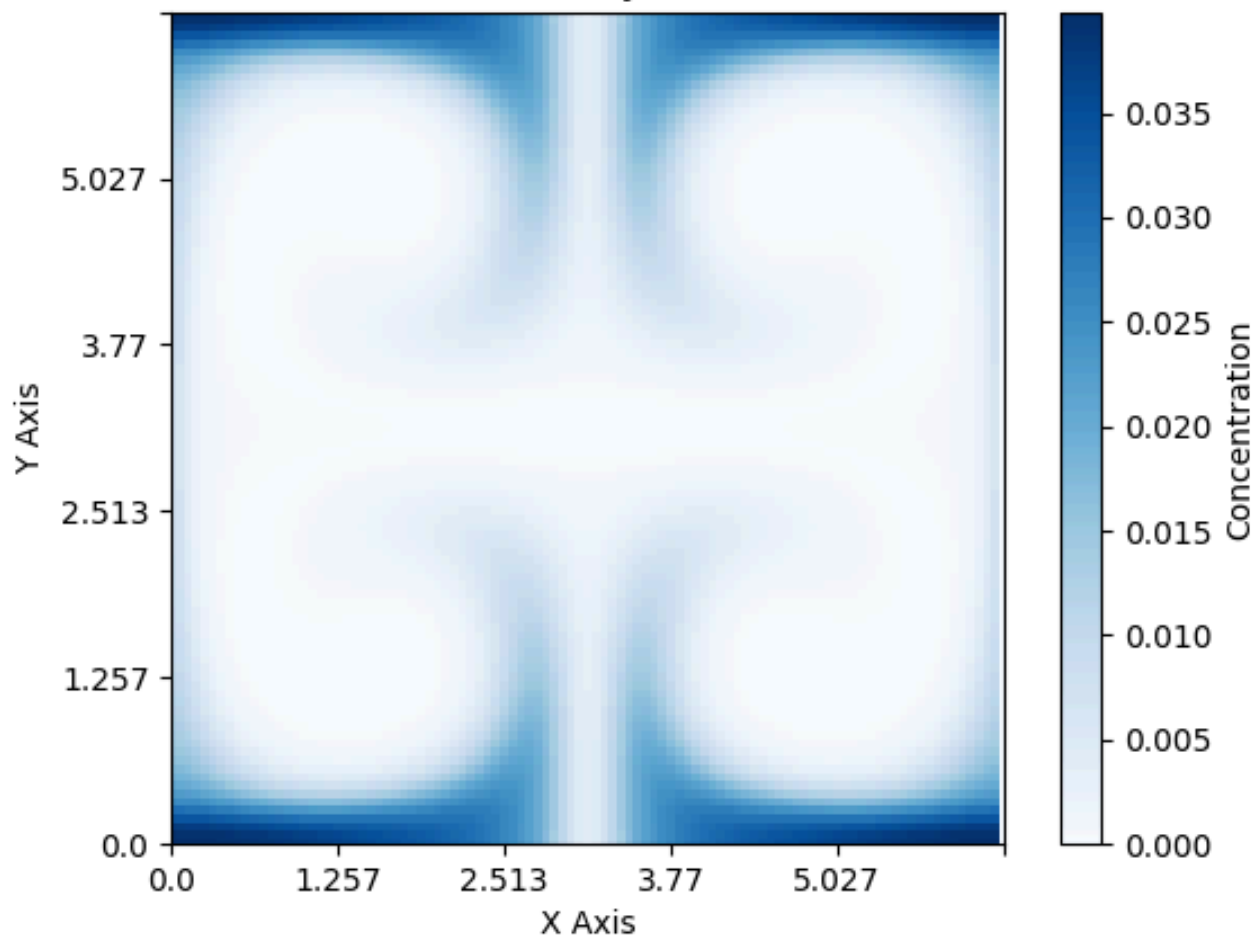


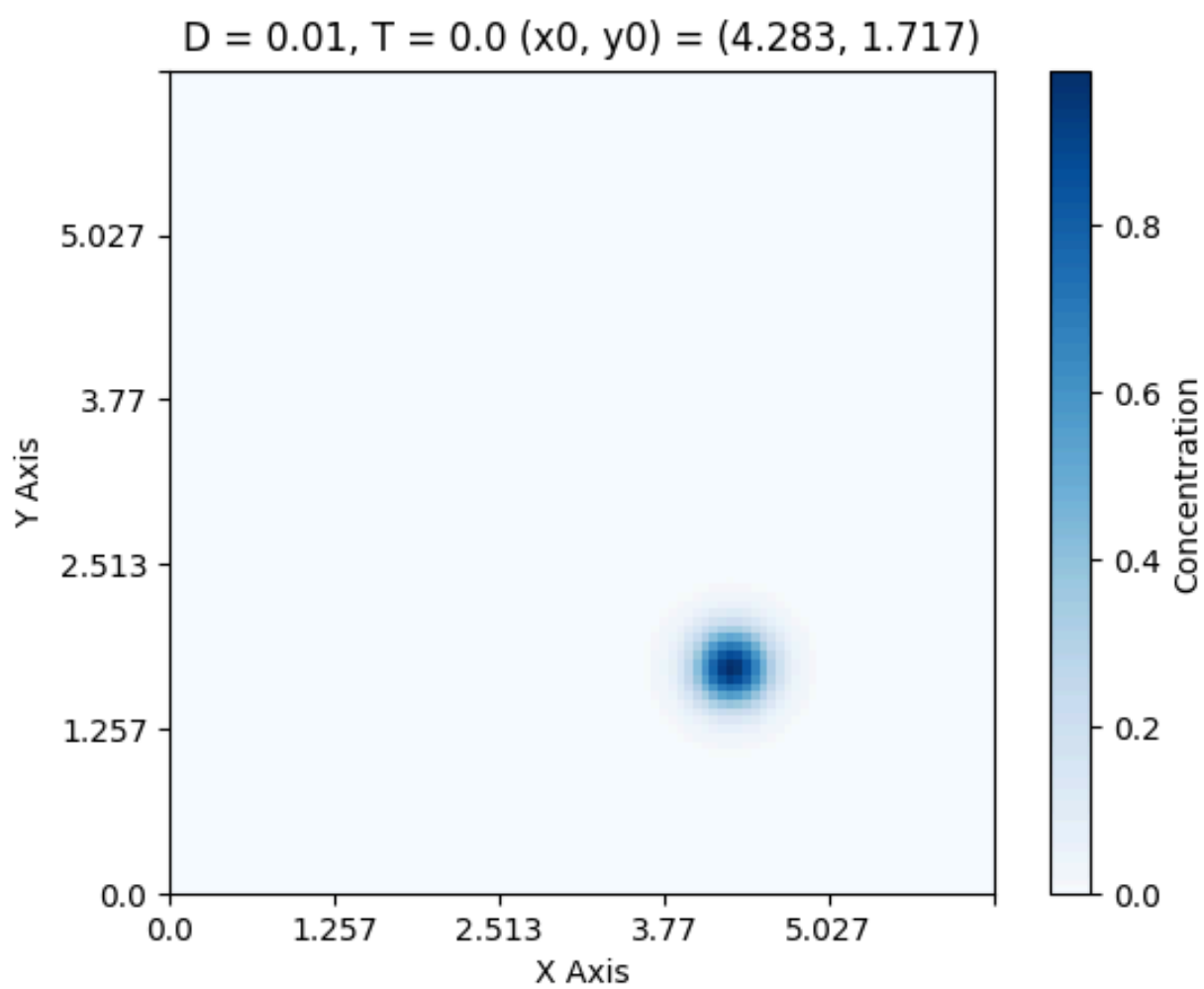


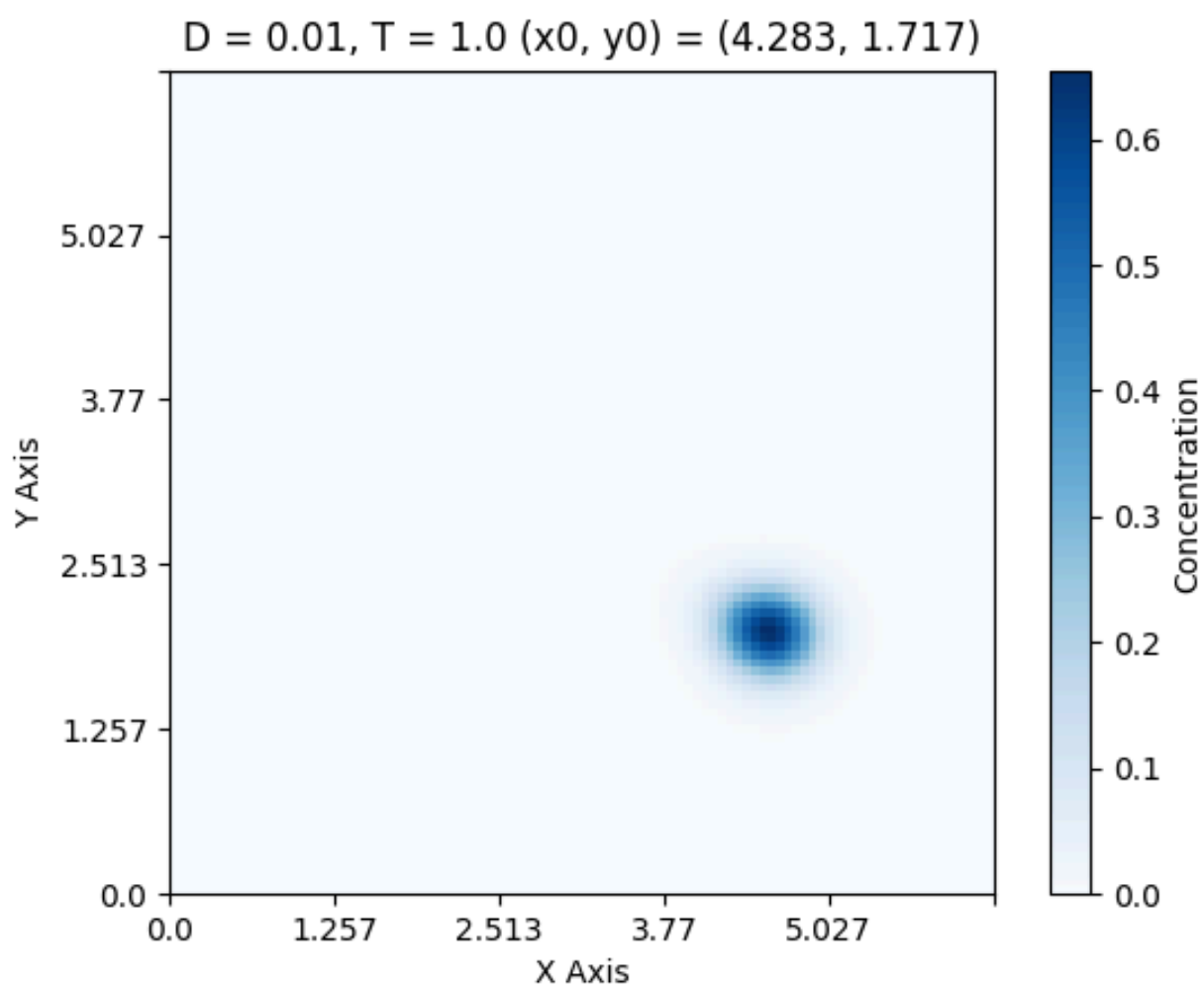


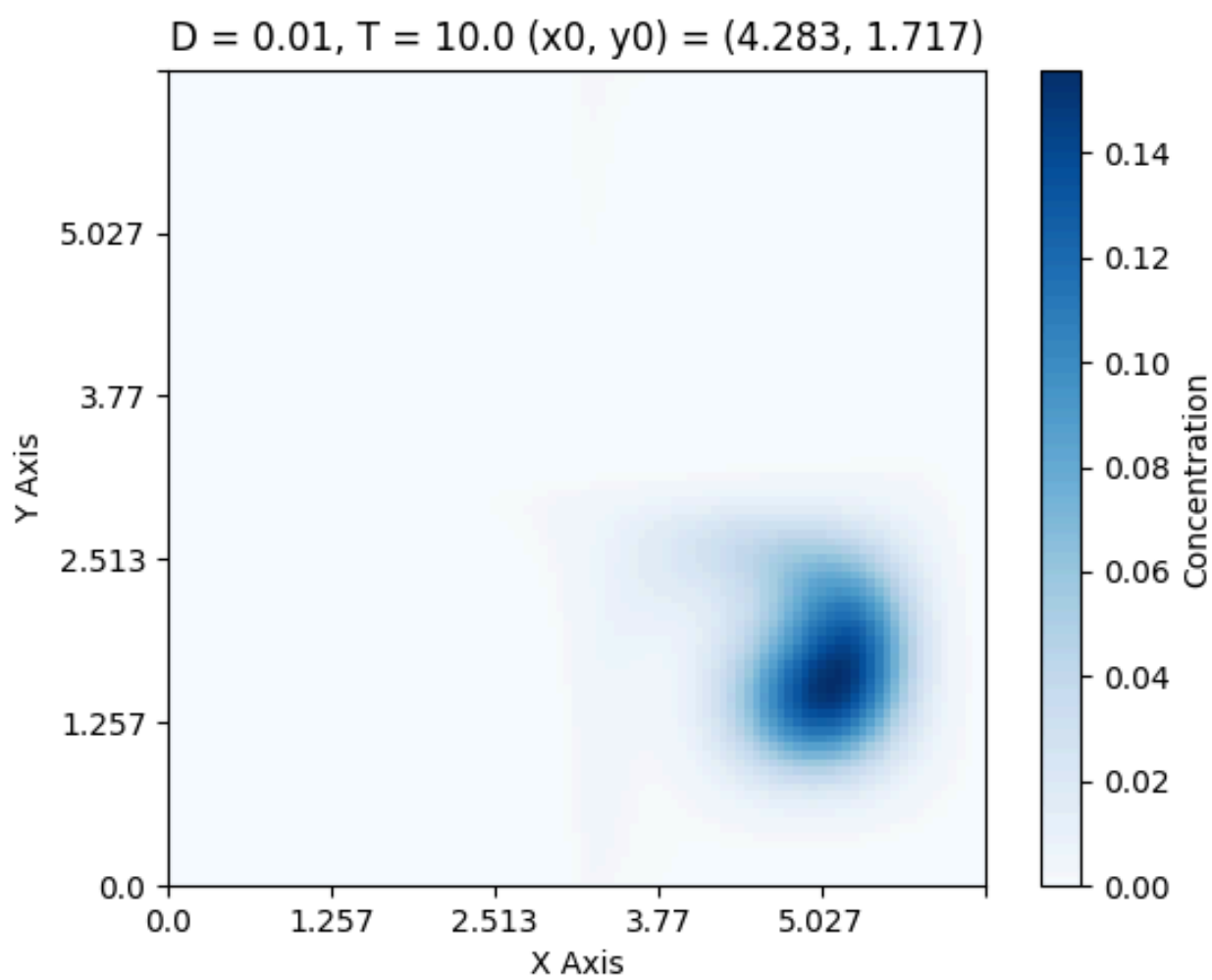


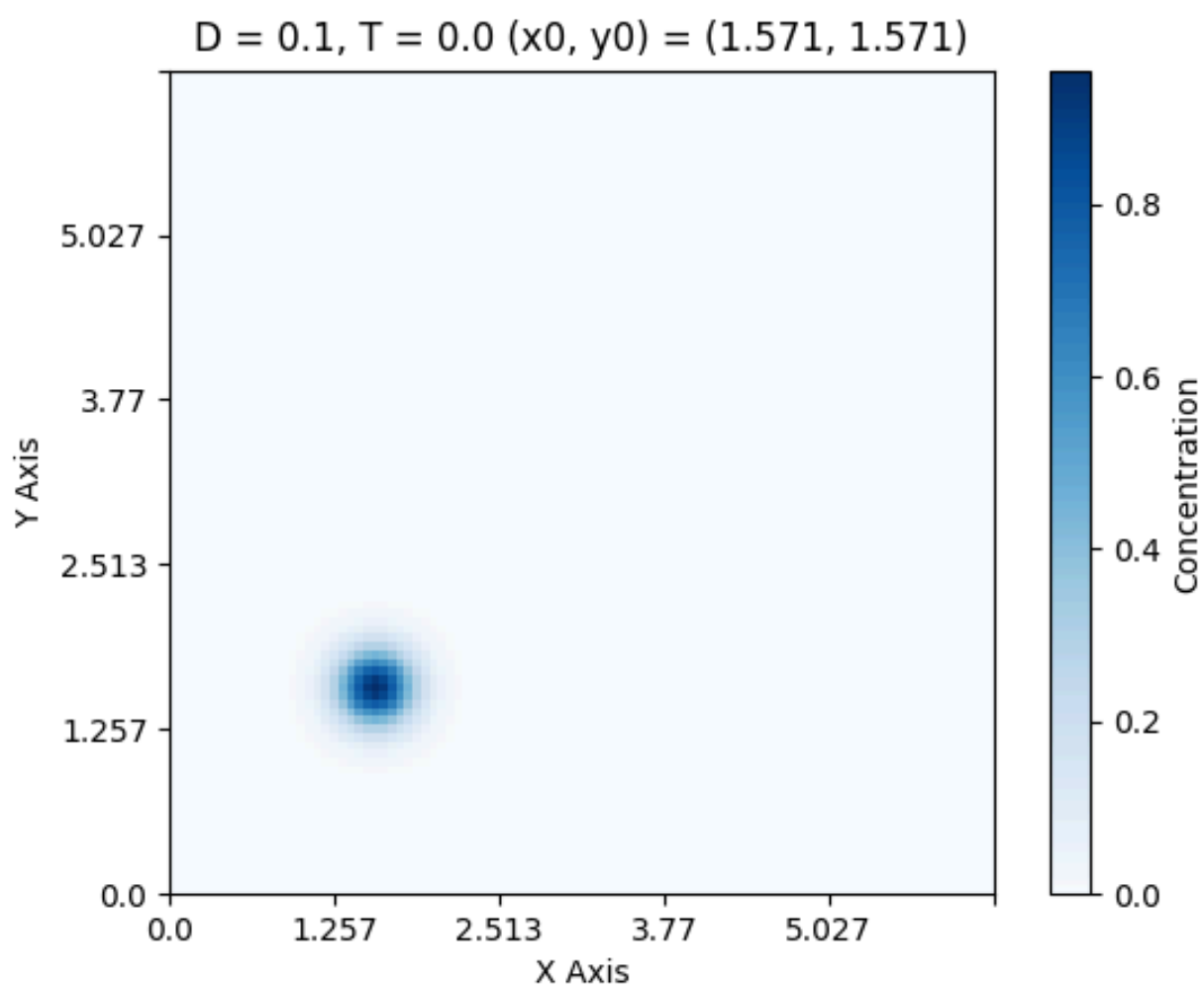
$D = 0.01, T = 10.0 (x_0, y_0) = (3.142, 3.142)$

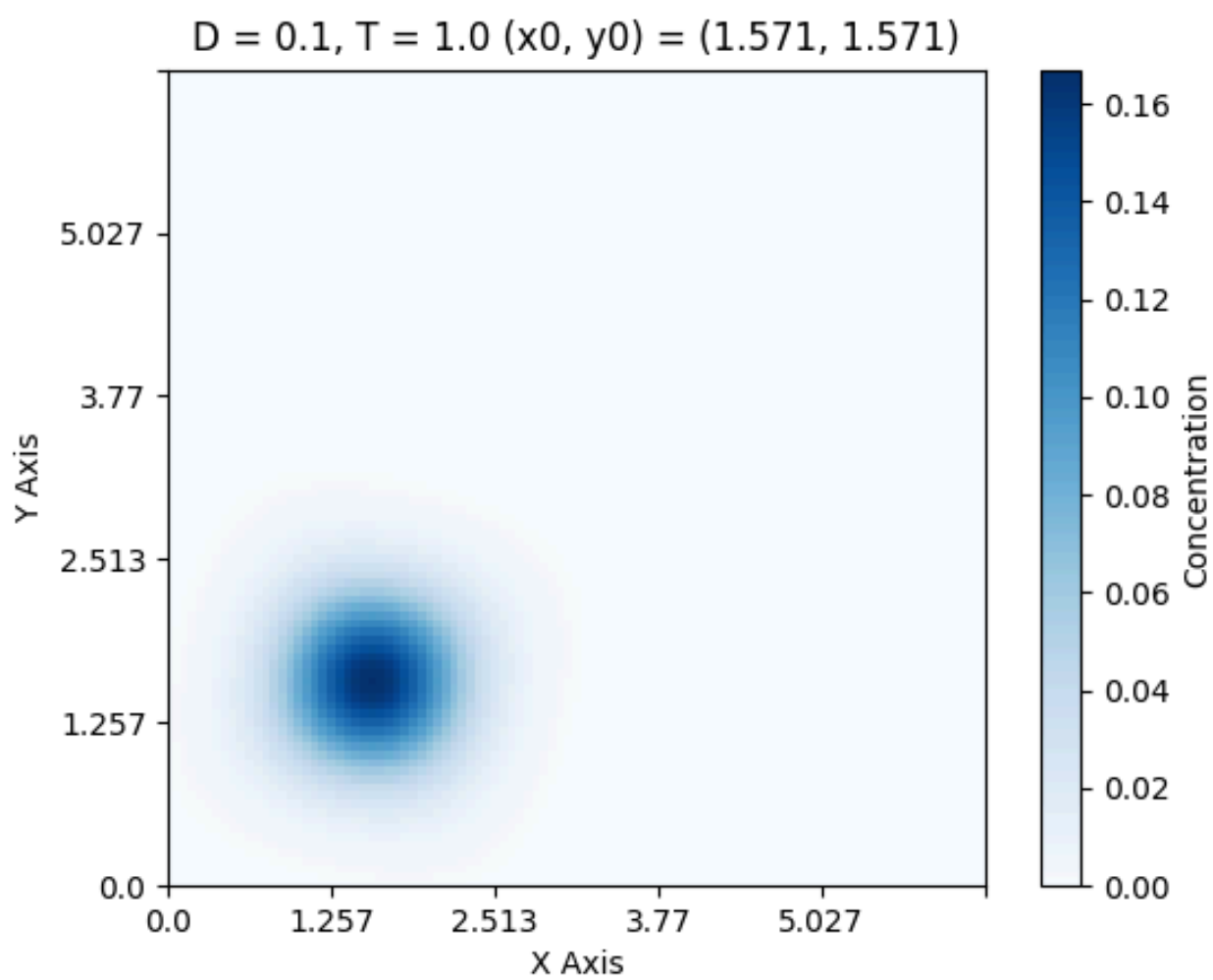


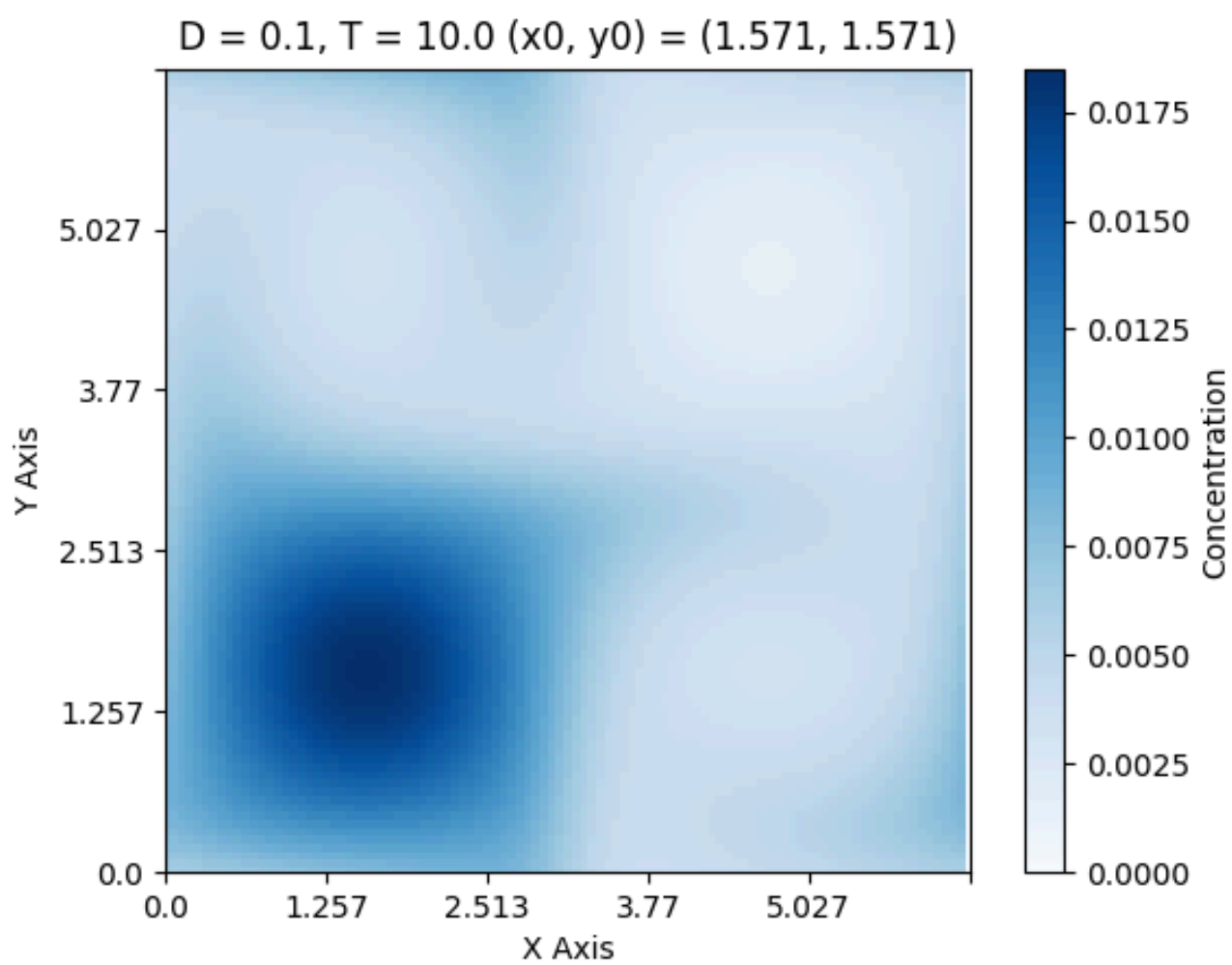


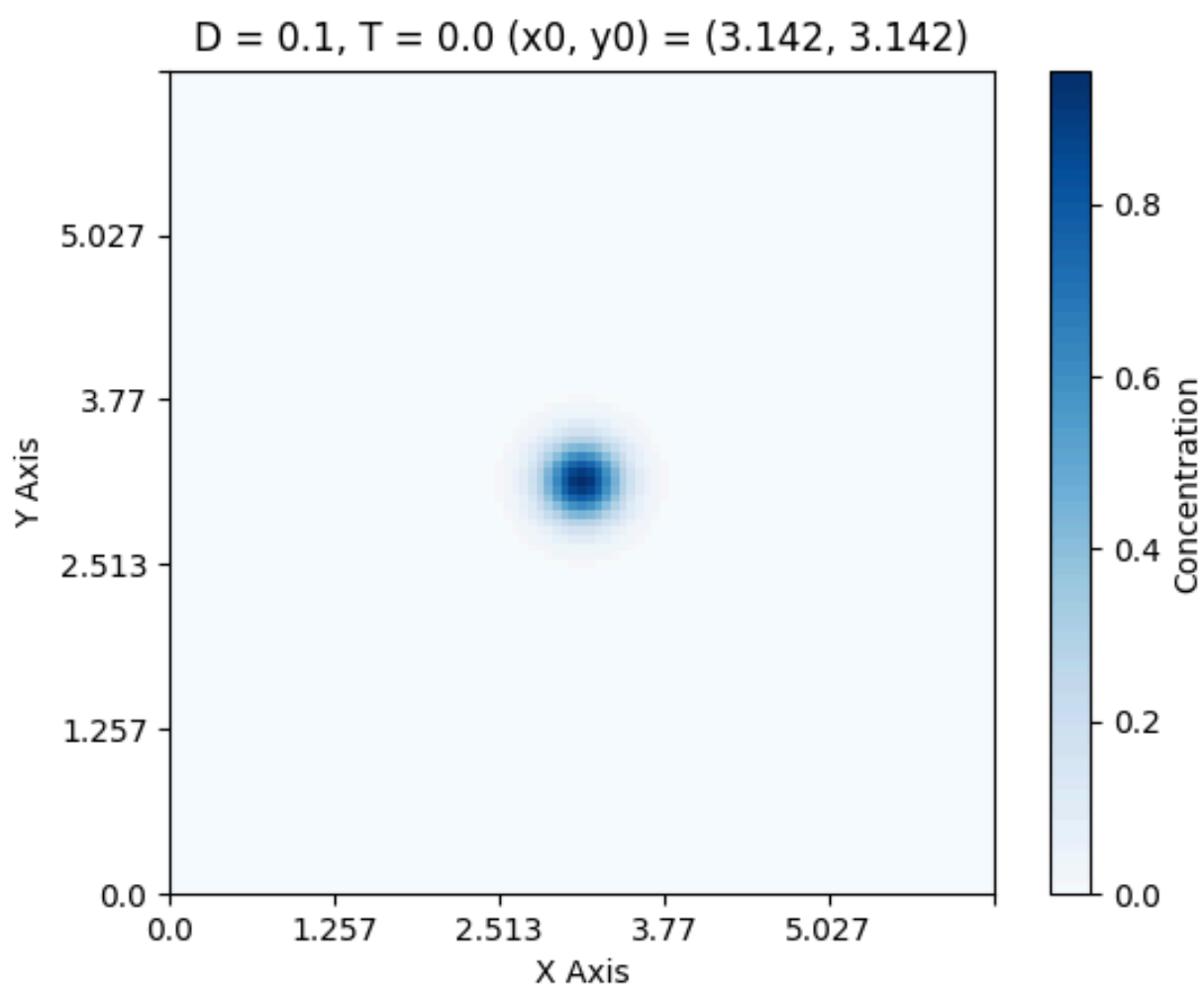












$D = 0.1, T = 1.0 (x_0, y_0) = (3.142, 3.142)$

