Toy Model Hauxong

Toy model proposed by Hauxong to show bifurcation shift when added diffusion.

Where

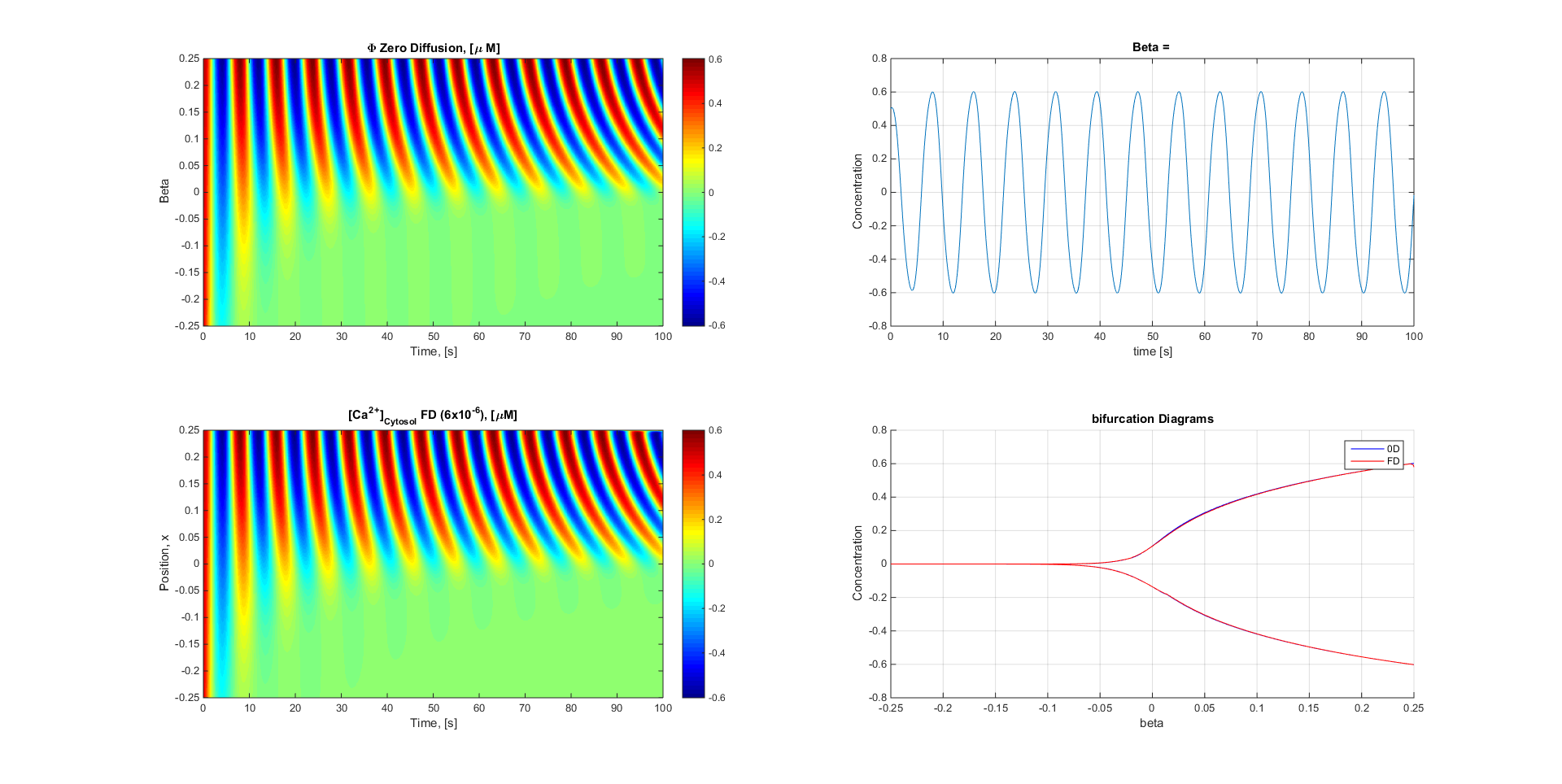
Jacobian evaluated at stable point.

# Example 1

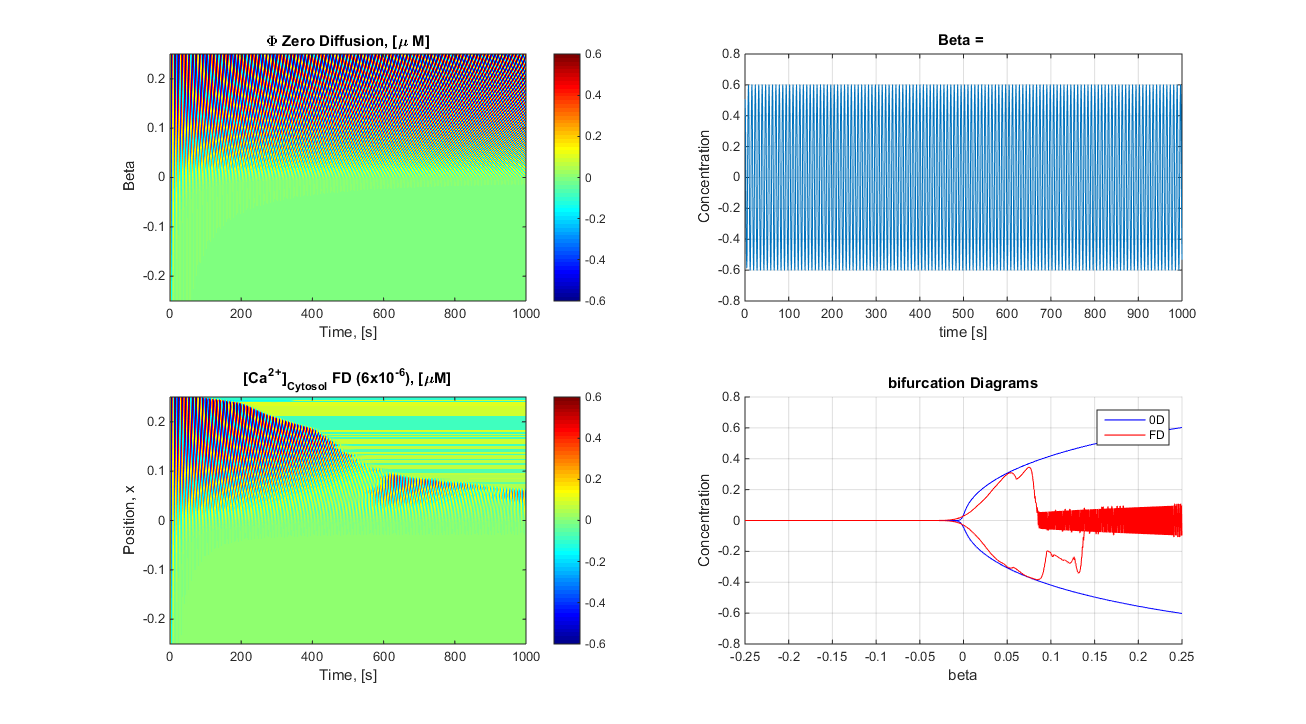
w = -1/1.5;

b = 0.01;

## Short Time Frame

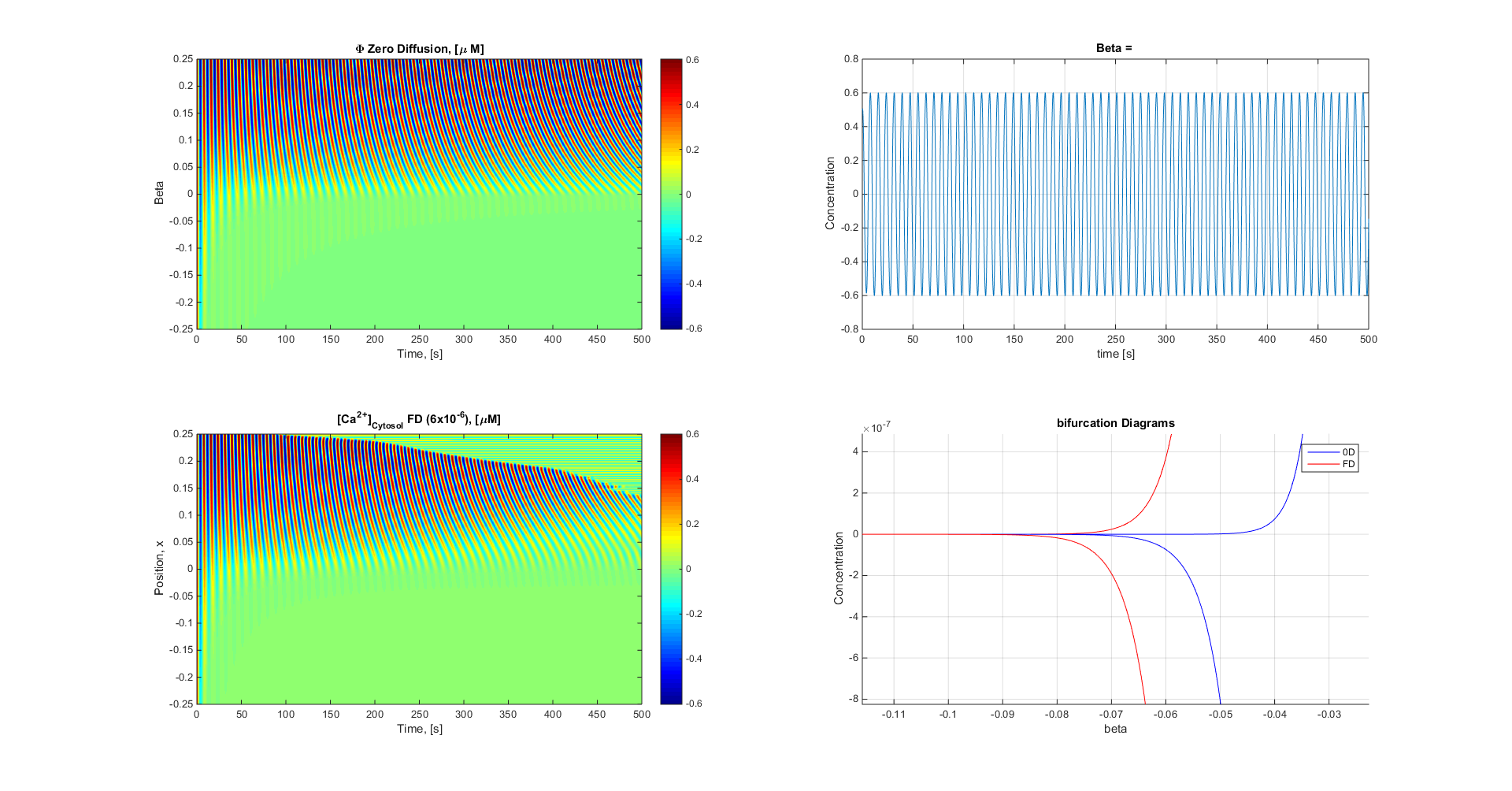


## Long Time Frame



and *b* determines stability (attracting fixed point osculations compared to repelling). When it is less than zero unstable oscillations. I don’t think the difference in the bifurcation is enough to justify the findings.

Epslon/2\*({0:0.25}^2- (-0.66)^2) at beta = 0 stability is epslon/18



# Sign / constant change

Where

Jacobian evaluated at stable point.

# Example 1

w = 0.5;

b = 0.1;

### Short Time Frame

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### Long Time Frame

