Equation (1) is wrong. It is shown as

but the signs of the terms on the right side are wrong and there is a missing partial derivative in the last term. This equation should be either

or

The boundary condition (in line 137 of the PDF of the manuscript) is still wrong. A no-flux boundary condition for the correct equation would be

at x= χ and

at x= -χ .

(In previous work on this type of model we found that just using the conditions

at x= χ , - χ gave a good approximation to the results obtained with the actual (more detailed) no-flux condition.