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Rim Mheich - Cahn-Hilliard equation with regularization and proliferation term

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I would like to present briefly some of the work that I have done in my thesis. We are interested in the Cahn-Hilliard equation with a regularization term. First, the equation is endowed with Neumann boundary conditions, we prove the existence and uniqueness of the solution and the regular and logarithmic cases. Then, study the asymptotic behavior of the solution for the regular case. Second, we take the same equation but now with Dirichlet boundary conditions and prove the strict separation property for the logarithmic term.