On the Lifshitz-Slyozov equation with nucleation

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The Lifshitz-Slyozov equation is suitable to represent phase transition phenomenon and to model polymerization-depolymerization processes. It can be seen as a limit case of the general coagulation-fragmentation. In this talk, we present some results on this model including the formation of new small polymers, the so-called nucleation phenomenon, through a boundary condition.