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Parallel Computation of Phase Field Model and Comparision with the Experiment

In this talk, we will present the results obtained from 3D calculation of a phase field model along with a movie of dendritic growth of a single needle crystal. The properties of dendritic growth such as interface growth velocity and the influence of anisotropy on the dendritic growth will be compared with the microgravity experiment. tip radius of the dendrite will be compared

The results will be compared with microgravity experiments for Succinonitrile.