

1046-35-383

Xuming Xie* (xuming.xie@morgan.edu), Department of Mathematics, Morgan State University, Baltimore, MD 19713. *Well-posedness in Sobolev space of an unsteady crystal growth problem*. Preliminary report.

We are concerned with an initial value problem arising from dendritic crystal growth with no surface tension. Local existence and uniqueness in Sobolev space are obtained for the problem. (Received August 29, 2008)