Section 07: Modelisation and Simulation	Poster number 67

Numerical Analysis of Becker-Doring Equations

Ali Reza Soheili, Sistan and Baluchestan University.

ABSTRACT

The Becker-Doring model the dynamics of coagulation and fragmentation of clusters of identical particles. The model is an infinite system of ordinary differential equations. For numerical simulation the system is truncated at clusters of finite size.

In this paper, we describe various ways to approximate the Becker-Doring model which reduce the number of equations to be solved with capture the behavior of the problem.

Keywords: *Becker-Doring model, Numerical approximation*

Mathematics Subject Classification: *65*

Contact Address: `soheili@hamoon.usb.ac.ir`