Preconditioning for Diffuse Interface Tumor Growth Models

Jessica Bosch [1]

Computational models of tumor growth form a contemporary area of study. Diffuse interface models have been recently proposed as a tool with an important significance to cancer modeling. In this poster, we consider preconditioners for numerical simulations of diffuse interface tumor growth problems. Block preconditioners using effective Schur complement approximations are presented. Extensive numerical experiments show a robust convergence behavior.

---

[1]The University of British Columbia, Canada (jbosch@cs.ubc.ca)