LIST OF PUBLICATIONS

of Gregory Seregin

Mathematical Problems in Plasticity Theory


Variational Problems in the Theory of Phase Transitions in Solids


Variational Problems in Nonlinear Elasticity


General Theory of the Calculus of Variations and nonlinear PDE’s


Mathematical Problems in the theory of Newtonian and non-Newtonian fluids


29. **On smoothness of $L_{3,\infty}$-solutions to the Navier-Stokes equations up to boundary**, Preprint PDMI-16/2003, Mathematische


35. *New Sufficient Conditions of Local Regularity for Solutions to the Navier-Stokes Equations*, Journal of mathematical fluid mechanics, first online (with A. Mahalov and B. Nicolaenko).


40. On local regularity of suitable weak solutions to the Navier-Stokes equations, accepted for publications in Uspekhi Matemat. Nauk (Russian Mathematical Surveys)

41. A sufficient condition of regularity for axially symmetric solutions to the Navier-Stokes equations, accepted for publication in SIMA, (with W. Zajaczkowski)

42. Local regularity theory of the Navier-Stokes equations, Handbook of Mathematical Fluid Mechanics, Vol. 4, Edited by Friedlander, D. Serre, pp, 159-200

Finite Element Method


**Monographs**