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14. ABSTRACT This document is the final report for AFOSR Grant F49620-97-1-0172, "Lattice-Gas Models of Complex-Fluid Hydrodynamics." Under the terms of this grant, the Center for Computational Science at Boston University provided theoretical and computational support to the Lattice-Gas Theory and Computation group at the Space Vehicles Directorate of Air Force Research Laboratory (AFOSR task 2304CP). The principal research topics were the development of lattice-gas and lattice Boltzmann models for complex fluids and droplets, the development and analysis of quantum lattice-gas automata, and the development of unconditionally stable entropic lattice Boltzmann models for viscous fluid dynamics. Nine publications have resulted from this effort, as well as the editorship of the Proceedings of the Seventh International Conference on Discrete Models for Fluid Mechanics as a special issue of the <i>International Journal of Modern Physics C</i> . The principal results of this work are described and their significance is placed in historical perspective.						
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					(617) 353-6050	

Lattice Gas Models Of Complex Fluid Hydrodynamics

Christian Drosten



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