Section 15

Numerical Analysis and Scientific Computing

In case of several authors, Invited Speakers are marked with a *.

Gregory Beylkin: On Multiresolution Methods in Numerical Analysis ..... III 481

P. Deift*, T. Kriecherbauer, K. T-R McLaughlin, S. Venakides and X. Zhou: Uniform Asymptotics for Orthogonal Polynomials ..... III 491

Bjorn Engquist: Wavelet Based Numerical Homogenization ..... III 503

Hisashi Okamoto: A Study of Bifurcation of Kolmogorov Flows with an Emphasis on the Singular Limit ..... III 513

Jan-Olov Strömberg: Computation with Wavelets in Higher Dimensions ..... III 523

Lloyd N. Trefethen* and Tobin A. Driscoll: Schwarz–Christoffel Mapping in the Computer Era ..... III 533