Section 16

Applications

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

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Andreas Dress*, Werner Terhalle: The Tree of Life and Other Affine Buildings ..... III 565

Leslie Greengard* and Xiaobai Sun: A New Version of the Fast Gauss Transform ..... III 575

Ulf Grenander: Strategies for Seeing ..... III 585

Frank Hoppensteadt* and Eugene Izhikevich: Canonical Models in Mathematical Neuroscience ..... III 593

Thomas Yizhao Hou: Numerical Study of Free Interface Problems Using Boundary Integral Methods ..... III 601

Gérard Iooss: Travelling Water-Waves, as a Paradigm for Bifurcations in Reversible Infinite Dimensional "Dynamical" Systems III 611

Yury Grabovsky and Graeme W. Milton*: Exact Relations for Composites: Towards a Complete Solution ..... III 623

Charles S. Peskin: Optimal Dynamic Instability of Microtubules .. III 633