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Nota di contenuto	Preface; CONTENTS; A Non Adiabatic Theory for Ultrafast and Catalytic Transfer of Electrons at Low Temperature S. Aubry and G. Kopidakis; Collapse Control in an Inhomogeneous Nonlinear Schrodinger Equation Model P.L. Christiansen, Yu. B. Gaididei and B. Lemesurier; The Discrete Nonlinear Schrodinger Equation - 20 Years On J. C. Eilbeck and M. Johansson; Experimental Studies and Theory of Nonlinear Rotational Dynamics in the Quantum Regime: The Interplay of Structure, Dynamics and Localization in Crystals F. Fillaux, B. Nicolai and A. Cousson Energy Barriers in Coupled Oscillators: From Discrete Kinks to Discrete Breathers J.A. SepulchrePhase Transitions in Homogeneous Biopolymers: Basic Concepts and Methods N. Theodorakopoulos; Charge Transport in a Nonlinear, ThreeDimensional Dna Model with Disorder J. Archalla, D. Hennag and J. Agarural; Breathers and Conformational Transitions in Molecular Crystals Mariette Barthes; What Drives Protein Folding and Protein Function? L. Cruzeiro-Hansson; Some Exact Results for Quantum Lattice Problems J.C. Eilbeck;

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Sommario/riassunto

This conference was the third meeting organized in the framework of the European LOCNET project. The main topics discussed by this international research collaboration were localization by nonlinearity and spatial discreteness, and energy transfer (in crystals, biomolecules and Josephson arrays).
