CONTENTS

Vol	lime	2

volume 2	
Patrick Bernard and Boris Buffoni — Weak KAM pairs and Monge-Kantorovich duality	397
${\it Tadahisa Funaki} - Hydrodynamic \ limit \ and \ nonlinear \ PDEs \ with singularities$	421
Norihito Koiso — PDE and differential geometry in study of motion of elastic wires	441
Corrado Mascia, Andrea Terracina and Alberto Tesei — Evolution of stable phases in forward–backward parabolic equations	451
Xing-Bin Pan — Analogies between superconductors and liquid crystals: Nucleation and critical fields	479
Takashi Suzuki — Method of the blowup envelope and applications	519
Chiaki Hirota, Tetsuya Ishiwata and Shigetoshi Yazaki — Numerical study and examples on singularities of solutions to anisote crystalline curvature flows of nonconvex polygonal curves	rop: 543
Masato IIDA, Kimie NAKASHIMA and Eiji YANAGIDA — On certain one-dimensional elliptic systems under different growth conditions at respective infinities	565
Kota Ikeda — Stability analysis for a stripe solution in the Gierer-Meinhardt system	573
Yoshitsugu Kabeya — Perturbation of structures of radial solutions to elliptic equations	589
Yukio Kan-on — On the bifurcation structure of positive stationary solutions for a competition-diffusion system	601
Khin Phyu Phyu Htoo, Masayasu Mimura and Izumi Takagi — Global solutions to a one-dimensional nonlinear parabolic system modeling colonial formation by chemotactic bacteria	613
Hiroaki Kikuchi — Existence of standing waves for the nonlinear Schrödinger equation with double power nonlinearity and harmonic potential	623
Masataka Kuwamura — The Hamiltonian formalism in reaction-diffusion systems	635

Bendong Lou — Speed estimate for a periodic rotating wave in an undulating zone on the sphere	647
Tosiya $\mbox{\sc Miyasita}$ — On the dynamical system of a parabolic equation with non-local term	661
$Y\bar{u}ki$ Naito — A variational approach to self-similar solutions for semilinear heat equations	675
Wei-Ming NI, Kanako Suzuki and Izumi Takagi — Determination of the limit sets of trajectories of the Gierer-Meinhardt system without diffusion	689
Shinya Okabe — Asymptotic form of solutions of the Tadjbakhsh-Odeh variational problem	709
Koichi Osakı — Global existence of a reaction-diffusion-advection system	729
Takasi Senba — Blowup solutions to some systems related to biology	741
Kanako Suzuki and Izumi Takagi — On the role of the source terms in an activator-inhibitor system proposed by Gierer and Meinhardt	749
Futoshi Takahashi — Concentration phenomena in the conformal Brezis-Nirenberg problem	767
Tohru TSUJIKAWA — Interfacial analysis to a chemotaxis model equation with growth in three dimension	785