Table of Contents for MEMO/253/1210

Neckpinch Dynamics for Asymmetric Surfaces Evolving by Mean Curvature Flow

• Introduction
• The first bootstrap machine
• Estimates of first-order derivatives
• Decay estimates in the inner region
• Estimates in the outer region
• The second bootstrap machine
• Evolution equations for the decomposition
• Estimates to control the parameters $a$ and $b$
• Estimates to control the fluctuation $\phi$
• Proof of the Main Theorem
• Appendix A. Mean curvature flow of normal graphs
• Appendix B. Interpolation estimates
• Appendix C. A parabolic maximum principle for noncompact domains
• Appendix D. Estimates of higher-order derivatives
• Bibliography