

APPENDIX A

Examples (under MATLAB)

Here are a few realizations of the Laplacian of the Ronkin function for various examples of polynomials. Computations have here be performed with MATLAB.

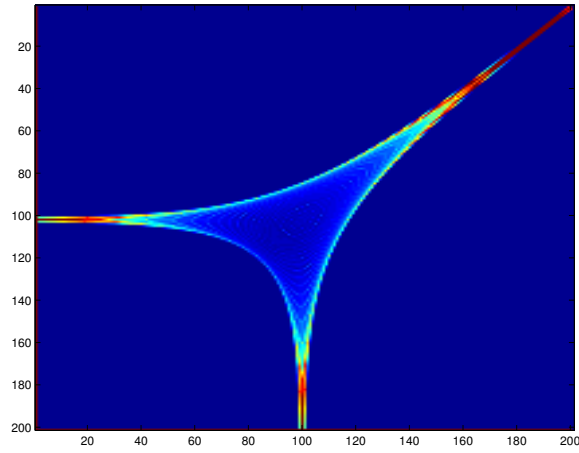


FIGURE A.1. Laplacien de $R_L : L := x + y - 1$ (droite)

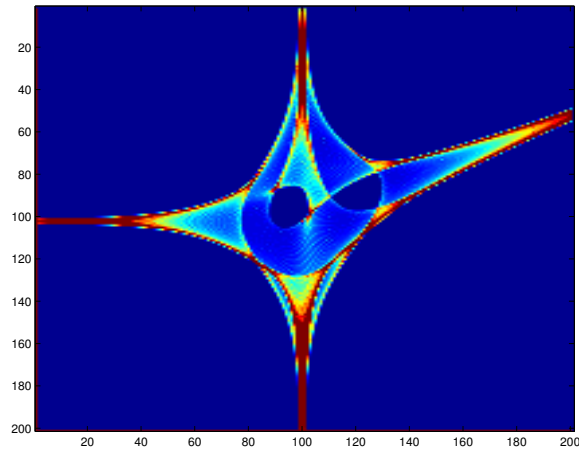


FIGURE A.2. Laplacien de $R_P : P := 1 + 5xy + y^2 - x^3 + 3x^2y - x^2y^2$

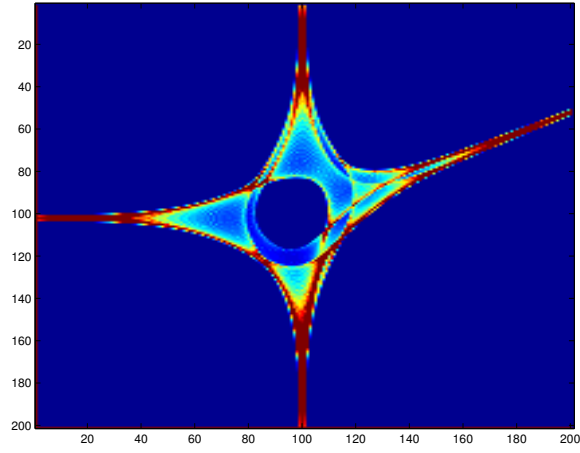


FIGURE A.3. Laplacien de R_P : $P := 1 + 5xy + y^2 - x^3 + x^2y - x^2y^2$

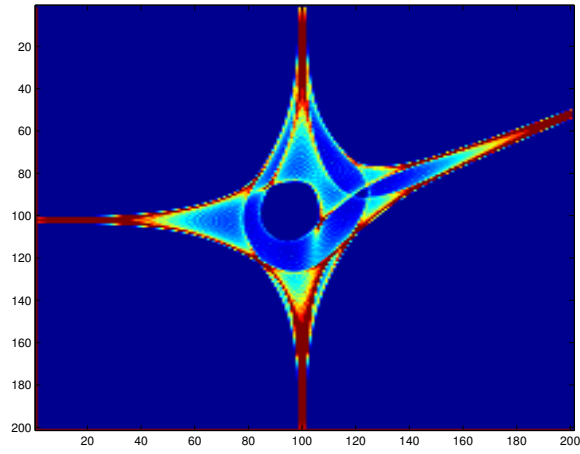
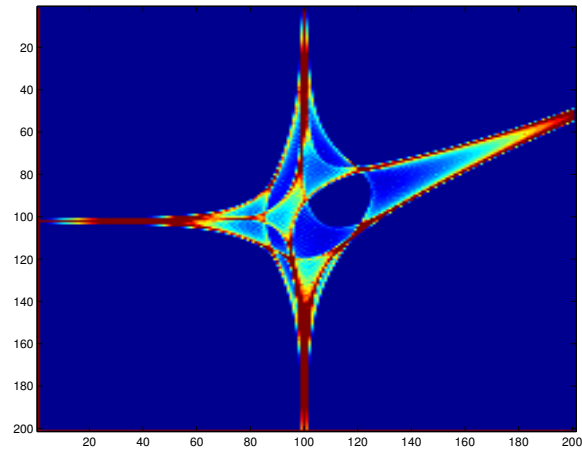
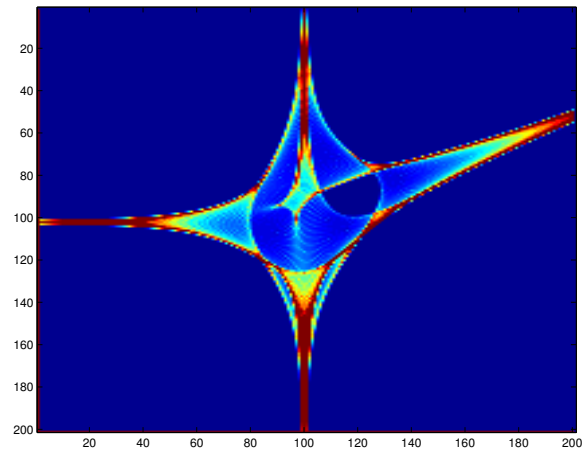


FIGURE A.4. Laplacien de R_P : $P := 1 + 5xy + y^2 - x^3 + 2x^2y - x^2y^2$

FIGURE A.5. Laplacien de R_P : $P := 1 + 2xy + y^2 - x^3 + 3x^2y - x^2y^2$ FIGURE A.6. Laplacien de R_P : $P := 1 + 4xy + y^2 - x^3 + 3x^2y - x^2y^2$

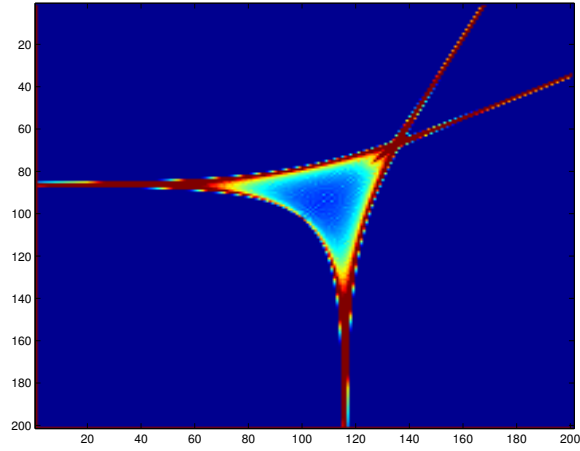


FIGURE A.7. Laplacien de R_{Δ_3} : $\Delta_3 := 27 + 4x^3 - 4y^3 + 18xy - x^2y^2$ (discriminant)

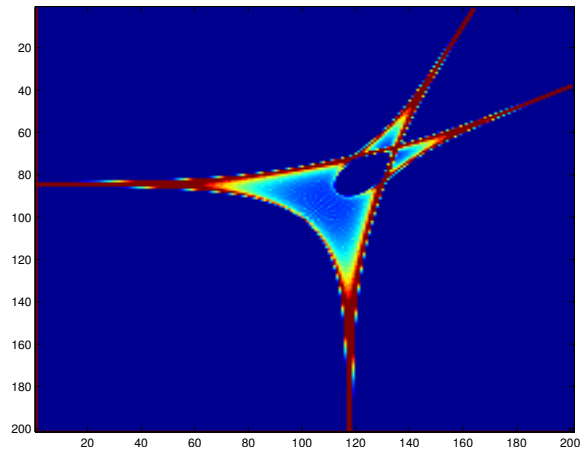


FIGURE A.8. Laplacien de $R_{\Delta_3^{\text{modif}}}$:

$\Delta_3^{\text{modif}} := 25 + 3x^3 - 3y^3 + 16xy - x^2y^2$
 (discriminant perturbé)