

成果報告

本課程依本人及合作的博士生與博士後的研究工作發展而成，課程講

義初稿正整理打字中，將逐章放上網頁。相關論文為

(I) 花樣生成問題：依據下面兩篇論文

- (1) Jung-Chao Ban and Song-Sun Lin, “Patterns generation and transition matrices in multi-dimensional lattice models”, Discrete and Continuous Dynamical Systems, Vol. 13, 637-658. (2005).
- (2) Jung-Chao Ban, Song-Sun Lin and Yin-Heng Lin, “Patterns generation and spatial entropy in two-dimensional lattice models”, Asian Journal of Mathematics, vol. 11, no. 3, 497-534. (2007).

(II) Decidability：依據下面兩篇論文

- (1) Wen-Guei Hu and Song-Sun Lin, “Nonemptiness problems of plane square tiling with two colors”, Proceedings of American Mathematical Society 139 (2011) 1045-1059.
- (2) Hung-Hsun Chen, Wen-Guei Hu, De-Jan Lai and Song-Sun Lin, “Decidability of plane edge coloring with three colors”, submitted(2013). (arXiv:1210.6712)

(III) Mixing：依據下面論文

Jung-Chao Ban, Wen-Guei Hu, Song-Sun Lin and Yin-Heng Lin, "Verification of mixing properties in two-dimensional shifts of finite type", revised (2013). (arXiv:1112.2471)

(IV) Multiplicative integer systems：依據下面論文

Jung-Chao Ban, Wen-Guei Hu and Song-Sun Lin,” Pattern generation problems arising in multiplicative integer systems”, revised(2013). (arXiv:1207.7154)

(相關論文資料在後面附件中)