

# An introduction to expander graphs

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*List of corrections*

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## Chapter 1

- (1) Page 6, line 5: “the image of  $\gamma$ ” (instead of  $\eta$ ).
- (2) Page 6, lines 8 and 9: “even if  $k$  is deformed” and “distorsion of  $k$ ” (instead of  $\gamma$ ).
- (3) Page 8, line 7: actually, there are two “miraculous” values of  $t$ , namely  $t = 0$  and  $t = 1$  (with  $\beta = 1$  and  $\beta = 0$  respectively).

## Notation

- (1) Page 10: item (13) should come before item (11) (which uses the notation  $f \sim g$ ); in item (12), add that  $f = O(g)$  is *synonymous* with  $f \ll g$ .

## Chapter 2

- (1) Page 20, exercice 2.1.19: this should have been placed in Section 2.2, since Question (2) is best solved and understood in terms of the metric on the graph.
- (2) Page 41, l. -9: “edges between two points  $x, x \cdot s$  for  $s \in S$ ” (thanks to C. Ballantine).

## Chapter 6

- (1) Page 193, Corollary 6.4.3: after (6.16), instead of “for  $n \leq \tau \log(p/2)$ ”, read “for some  $n \asymp \tau \log(p/2)$ ”; the proof gives this result after inspection, or compare with Corollary 4.6 in reference [70]. (Thanks to E. Fuchs, A. Tran and M. Litman for this correction and the next.)
- (2) Page 195, Corollary 6.4.5: after (6.20), instead of “where”, read “for some”; this is what is proved in this case (see page 196).