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Mod-\$φ\$ convergence

Freddy Delbaen, Emmanuel Kowalski, Ashkan Nikeghbali

(Submitted on 28 Jul 2011 (v1), last revised 29 Jul 2011 (this version, v2))

Using Fourier analysis, we study local limit theorems in weak-convergence problems. Among many applications, we discuss random matrix theory, some probabilistic models in number theory, the winding number of complex brownian motion and the classical situation of the central limit theorem, and a conjecture concerning the distribution of values of the Riemann zeta function on the critical line.

Comments: 31 pages; updated a reference, add math.NT category **Probability (math.PR)**; Number Theory (math.NT) Subjects:

MSC classes: 60F05, 60B12, 60B20, 11K65, 11M06

Cite as: arXiv:1107.5657v2 [math.PR]

Submission history

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