Retraction of: The speed of a biased random walk on a Galton-Watson tree is analytic*

Adam Bowditch† Yuki Tokushige‡

Abstract

An erratum for the paper is given.

Keywords: Galton-Watson tree; biased random walks; speed; analytic.

MSC2020 subject classifications: Primary 60J80, Secondary 60K37; 60J10; 05C81.

Submitted to ECP on October 5, 2021, final version accepted on October 31, 2021.

The proofs of Theorem 1.1 and Lemma 3.1 use compact convergence of analytic functions to prove analyticity of the limiting function. Such an argument only holds for complex analytic functions and therefore the argument is insufficient to deduce the aforementioned results.

*Retracted article: https://doi.org/10.1214/20-ECP344.
†University College Dublin, Ireland. E-mail: adam.bowditch@ucd.ie
‡Technical University of Munich, Germany. E-mail: yuki.tokushige@tum.de
Advantages of publishing in EJP-ECP

• Very high standards
• Free for authors, free for readers
• Quick publication (no backlog)
• Secure publication (LOCKSS\(^1\))
• Easy interface (EJMS\(^2\))

Economical model of EJP-ECP

• Non profit, sponsored by IMS\(^3\), BS\(^4\), ProjectEuclid\(^5\)
• Purely electronic

Help keep the journal free and vigorous

• Donate to the IMS open access fund\(^6\) (click here to donate!)
• Submit your best articles to EJP-ECP
• Choose EJP-ECP over for-profit journals

---

\(^1\) LOCKSS: Lots of Copies Keep Stuff Safe [http://www.lockss.org/](http://www.lockss.org/)

\(^2\) EJMS: Electronic Journal Management System [http://www.vtex.lt/en/ejms.html](http://www.vtex.lt/en/ejms.html)

\(^3\) IMS: Institute of Mathematical Statistics [http://www.imstat.org/](http://www.imstat.org/)

\(^4\) BS: Bernoulli Society [http://www.bernoulli-society.org/](http://www.bernoulli-society.org/)

\(^5\) Project Euclid: [https://projecteuclid.org/](https://projecteuclid.org/)

\(^6\) IMS Open Access Fund: [http://www.imstat.org/publications/open.htm](http://www.imstat.org/publications/open.htm)