Errata to

Determinantal Probability: Basic Properties and Conjectures


by Russell Lyons

Conjecture 3.2 has been proved by Osada and Osada, as well as by Bufetov, Qiu, and Shamov. A short proof deducing it from the transference principle and Theorem 2.5 is given by R. Lyons, A note on tail triviality for determinantal point processes, Electron. Commun. Probab. 23, no. 72 (2018), 1–3.

In Subsection 4.2, the definition of $K_x$ is missing and there are some subtleties regarding Conjecture 4.6. First, since projections are idempotent,

$$K(x, z) = \int_E K(x, y)K(y, z) \, d\mu(y) \quad \mu^2\text{-a.e.}$$

Now redefine $K$ so that this equation holds for all $x$ and $z$. Writing

$$K_z(x) := K(x, z),$$

we obtain $K_z \in H$. Second, the equation $h(x) = (h, K_x)$ holds $\mu$-a.e., so again we may redefine $h$ so that it holds for all $x$. With these definitions, Conjecture 4.6 makes sense.

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