Erratum to

Indistinguishability of Percolation Clusters

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by Russell Lyons and Oded Schramm

In the proof of Lemma 3.6, $\Pi_e \mathcal{G} = \mathcal{G}$ should be $\Pi_e \mathcal{G} \cup \Pi_{\neg e} \mathcal{G} = \mathcal{G}$.

In the proof of Theorem 3.3, just before the first displayed equation, $n \in \mathbb{Z}$ should be $n \in \mathbb{N}$. Replace the first displayed equation by

$$Y_{n,e} := \widehat{\mathbf{P}}[\mathcal{E}_e^n \mid \omega] \text{ is } \mathcal{F}_{\neg e}\text{-measurable.}$$

Replace the second displayed equation by

$$\begin{aligned}\widehat{\mathbf{P}}[\mathcal{E}_e^n \cap \Pi_e \mathcal{B}] &= \mathbf{E}\big[\widehat{\mathbf{P}}[\mathcal{E}_e^n \cap \Pi_e \mathcal{B} \mid \mathcal{F}]\big] = \mathbf{E}\big[Y_{n,e} \mathbf{1}_{\Pi_e \mathcal{B}}\big] = \mathbf{E}\big[Y_{n,e}\, \mathbf{P}[\Pi_e \mathcal{B} \mid \mathcal{F}_{\neg e}]\big] \\ &= \mathbf{E}\big[Y_{n,e} \mathbf{1}_{\Pi_{\neg e} \mathcal{B} \cup \Pi_e \mathcal{B}}\, \mathbf{P}[e \in \omega \mid \mathcal{F}_{\neg e}]\big] = \mathbf{E}\big[Y_{n,e} \mathbf{1}_{\Pi_{\neg e} \mathcal{B} \cup \Pi_e \mathcal{B}} Z(e)\big] \\ &\geq \mathbf{E}\big[Y_{n,e} \mathbf{1}_{\mathcal{B}} Z(e)\big] \geq \delta\, \mathbf{E}\big[Y_{n,e} \mathbf{1}_{\mathcal{B}}\big] = \delta\, \widehat{\mathbf{P}}[\mathcal{E}_e^n \cap \mathcal{B}]\,.\end{aligned}$$

The three sentences of the first paragraph of the proof of Lemma 4.2 beginning "Let $\gamma \in \Gamma$" should be replaced by the following: "To prove that freq is Γ-invariant, note that for every $\gamma \in \Gamma$, there is an $m \in \mathbb{N}$ such that with positive probability $X(m) = \gamma o$. Hence for every measurable $A \subset [0, 1]$ such that $\alpha(C) \in A$ with positive probability, we have $\alpha(\gamma C) \in A$ with positive probability. A similar argument shows that if $\alpha(\gamma C) \in A$ with positive probability, then $\alpha(C) \in A$ with positive probability."

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