The Annals of Probability 2016, Vol. 44, No. 2, 1599 DOI: 10.1214/15-AOP1037 Main article DOI: 10.1214/11-AOP722 © Institute of Mathematical Statistics, 2016

ERRATUM TO "SHARP METASTABILITY THRESHOLD FOR AN ANISOTROPIC BOOTSTRAP PERCOLATION MODEL"

BY HUGO DUMINIL-COPIN AND AERNOUT VAN ENTER

Université de Genève and University of Groningen

We provide an Erratum, correcting how our main result generalises and correct some steps in the proof.

Although Theorem 1.1 as stated in our paper [1] is essentially correct, the generalisation announced at the end of page 1219 and the beginning of page 1220 to the situation where the site (m, n) gets occupied if k + 1 sites among the 2k + 2 sites (m + 1, n), (m, n - 1) and $(m - k, n), \ldots, (m - 1, n), (m + 1, n), \ldots, (m + k, n)$ are occupied, is incorrect as stated for $k \ge 2$.

It should read that (in probability) $\frac{\log T}{(1/p)(\log(1/p))^2}$ (which is the correct expression, and should also read like this in the theorem) tends to $\frac{(k-1)^2}{4(k+1)}$. In other words, the constant $\frac{1}{4(k+1)}$ given in our paper on the right-hand side of the unnumbered equation on page 1220 should be replaced by $\frac{(k-1)^2}{4(k+1)}$. We thank Rob Morris for pointing this out to us.

Also, the definition of weakly connected in page 1226 should be modified as follows. Two occupied points $x, y \in \mathbb{Z}^2$ are weakly connected if $x \in y + \mathcal{N}$ or there exists $z \in \mathbb{Z}^2$ such that $x, y \in z + \mathcal{N}$. Moreover, in the definition of $A_k(R_1, R_2)$, we need R_2 to be k-crossed, rather than k-vertically crossed as was written.

We thank Tim Hulshof for pointing this out to us.

REFERENCES

[1] DUMINIL-COPIN, H. and VAN ENTER, A. C. D. (2013). Sharp metastability threshold for an anisotropic bootstrap percolation model. *Ann. Probab.* **41** 1218–1242. MR3098677

DÉPARTEMENT DE MATHEMATIQUES UNIVERSITÉ DE GENÈVE 2–4 RUE DU LÈVRE GENÈVE SWITZERLAND

E-MAIL: hugo.duminil@unige.ch

JOHANN BERNOULLI INSTITUUT
VOOR WISKUNDE EN INFORMATICA
UNIVERSITY OF GRONINGEN
P.O. BOX 407
9700AK GRONINGEN
NETHERLANDS

E-MAIL: avanenter@gmail.com

Received June 2015.

MSC2010 subject classifications. 60K35, 83B43, 83C43.

Key words and phrases. Bootstrap percolation, anisotropy, sharp threshold, metastability.