## 1. Erratum for Joos et al

The paper can be found on arxiv

https://arxiv.org/abs/1601.03714

In the second last line of page 13 replace  $X'_t + 2t$  by  $\frac{X'_t}{2} + t$ .

Replace the last line on page 13 with that there is no  $t \leq \frac{\omega^{1/9}M}{2}$  for which  $X_t = 0$ and  $X'_t < \omega^{1/9}M$ .

Add at the end of the statement of Lemma 18: and  $X'_t < \omega^{1/9}M$ . In the last sentence of the proof of Lemma 18 replace  $t = \text{by for some } t \leq \text{ and replace }$ , which by and  $X'_t < \frac{\omega^{1/9}M}{2}$ , which.

page 16 line -3  $S_t$  should be  $S_{t-1}$ .

Proof of Lemma 16, fourth line of proof of (a), 4 should be 2. Same is true on the 16th line of proof of (a), third line of proof of (b) Proof of lemma 16 eighth line of proof of (a), four should be 2.

Set off equation (1) just before Lemma 24,:- should be geq as may be starting a new component. Need to do the same in the proof of Lemma 27 when we apply (1).

In the proof of Lemma 28,  $N_H(v)$  should often be  $N_H(u)$ .

In the set off equation four lines from the end of section 5, there is a spurious M in the exponent.