## ERRATUM MME SINAI BILLIARD MAPS, V BALADI AND M DEMERS, JAMS (2020)

-As the result of [Bu] is only asymptotic, the last lines of section 2.3 should be replaced by "if  $h_* > s_0 \log 2$ , then there exists C > 0 and  $M \ge 2$  so that  $\#FixT^m \ge C \exp(h_*m)$  for all  $m \ge M$  [Bu, Theorem 1.5]".

-In the 5 lines before (5.3), the factor  $1 - s_0$  should be replaced by 1 (four times).

-The bound (5.3) is only claimed (and used) for W and j such that  $T^{-k}(W)$  is small for all k between 0 and j-1. The first equality in (5.7) is in fact an inequality.

-Footnote 36 refers to the lower bound (7.26), it should instead refer to the upper bound (7.25).

-In the definition of  $B^0_{-2n}$  before Lemma 7.22,  $\mathcal{M}^0_{-n+j}$  should be replaced by  $\mathcal{M}^0_{-2n+j}$ .

-The uniform equivalence of  $\nu$  and  $\mu_*^W$  on almost every W in  $\mathcal{W}^s$  needed to get the first bound in the penultimate line of the proof of Lemma 7.23 is not established by Corollary 7.9. However, the last line of the proof of Corollary 7.9 (with  $E = A \cap W_{\xi}$  and  $\overline{E} = A \cap D(R_i)$ ) gives  $\mu_*(A \cap D(R_i)) \geq C''\nu(A \cap W_{\xi})$ , for a certain  $W_{\xi} \subset D(R_i)$ . (Indeed, A properly crosses  $R_i$  in the unstable direction and  $T^{-j}(A)$  properly crosses  $R_{i'}$  in the stable direction, so  $A \cap D(R_i)$  contains a product set of the form A' on one stable leaf  $W^0$  times the unstable foliation Gamma, which is like  $\overline{E}$  in the proof of Corollary 7.9.)

-Lemma 4.3 in Thermodynamic formalism for dispersing billiards (by the same authors, JMD (2022), see also Remark 4.4 there) showing that  $\mathcal{L}_t(C^1)$  is contained in the Banach space furnishes the proof of Lemma 4.9 here, which had been omitted.