ERRATUM TO: BILLIARDS IN L-SHAPED TABLES WITH BARRIERS

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In this erratum, we point out a gap in the proof of Theorem 1.1 of [B]. In Theorem 12.2, we stated a classification of nondivergent, ergodic, h_t -invariant measures on the eigenform locus $\mathcal{E}_D$. By nondivergent, we implicitly meant nondivergent under the positive-time geodesic flow a_t . This is a mistake; the classification stated is actually of measures which are nondivergent under the negative-time geodesic flow. In the first paragraph of Lemma 12.3, we then assume that we are working with the positive-time geodesic flow in the statement “any subsequential limit of m_x^t is h_t -invariant.”

This incorrect argument was intended to get around the fact that the classification of ergodic h_t -invariant measures on the eigenform locus from [CW] was incomplete. Theorem 1.1 should remain true, but a correct proof seems to require a complete classification of ergodic h_t -invariant measures. For now, Theorem 1.1 should be regarded as a conjecture. It does follow from [EM] that the asymptotics of Theorem 1.1 hold for almost every surface in the eigenform locus $\Omega E_D(1, 1)$.

I would like to thank Barak Weiss for pointing out this mistake.

References

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