MEASURE REDUCIBILITY OF COUNTABLE BOREL EQUIVALENCE RELATIONS: A CORRECTION

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As pointed out by Kechris in a personal communication, the proof of [CM17, Theorem 3.4.2] appears to be incorrect (or at least incomplete). Unfortunately, it seems that I replaced the correct proof—which appeared in an early draft of [CM17]—with the one that appeared in the final version at the suggestion of one of the referees. The correct version can be most concisely given by citing both the original paper and notes on the subject that I wrote several years later: If there is a minimal non-measure-hyperfinite countable Borel equivalence relation, then [CM17, Theorem 3.3.8] shows that there is no basis of size $< 2^{\aleph_0}$. Otherwise, [Mil18, Theorem 17.3] shows that there is no small (external) basis for the family of non-measure-hyperfinite restrictions of any given non-measure-hyperfinite countable Borel equivalence relation.

References

[CM17] C. Conley and B. Miller, *Measure reducibility of countable Borel equivalence relations*, Ann. of Math. (2) **185** (2017), no. 2, 347–402. MR 3612001

[Mil18] B. Miller, *Reducibility of countable equivalence relations*, Seminar notes.

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