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A CORRECTION TO "RECURRENT AND POISSON STABLE FLOWS"

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The main theorem in [**2**] contains an error which we want to correct here. In order to do this we introduce the following terminology relative to a flow (X, π) on a Hausdorff phase space X. We say that a set $M \subset X$ (point $x \in X$) is *approximated by weak attractors relative to an invariant set* $H \subset X$ provided each neighborhood U of M (of x) contains a weak attractor neighborhood V of M relative to the subflow $(H, \pi | H)$. We say that M (or x) is approximated by weak attractors of a property P relative to H provided there exists at least one neighborhood V of property P satisfying the conditions of the definition above.

The proof given for Theorem 1 of [**2**] is correct except for a subtle incorrect assumption which our new condition corrects. By reasoning in a manner somewhat similiar to that proof we obtain the following corrected version of the theorem. Its proof will appear elsewhere.

THEOREM. *A flow on a locally compact Hausdorff space X is recurrent if and only if it is (positively, negatively) bilaterally Poisson stable and each point is approximated by compact (positive, negative) weak attractors relative to its orbit closure.*

Of course, the two corollaries of Theorem 1 must also reflect this change.

Gottschalk's example [**1**, p. 764] of a nonrecurrent bilaterally Poisson stable flow on a compact metric space shows that Poisson stability alone is not sufficient in Theorem 1.

REFERENCES

1. W. Gottschalk, *Almost periodic points with respect to transformation semi-groups*, Ann. of Math. **47** (1946), 762–766.

2. R. Knight, *Recurrent and Poisson stable flows*, Proc. Amer. Math. Soc. **83** (1981), 49–53.

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