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Corrections to the paper 'On orbits of unipotent flows on homogeneous spaces'

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The author regrets that there are certain errors in [1] and would like to give the following corrections.

(1) The last part of the statement of lemma 2.5 should be 'if and only if $\rho(u_tg)v = \rho(g)v$ for all $t \in \mathbb{R}$ ', which is what the proof actually shows. In the proof of corollary 2.6, applying the corrected version of lemma 2.5 leads to ' $u_tg\gamma \in g\gamma\sigma^{-1}(K \cap Z) \cdot N\sigma$ for all $t \in \mathbb{R}$ ' in place of the displayed line. The validity of the corollary is unaffected.

(2) In the proof of theorem 4.1 the assertion that 'we may assume Γ to be an irreducible lattice' is not valid; the author is thankful to D. Witte for pointing this out. The error, however, can be easily rectified using the full strength of theorem 0.2. In any case, a variation of the proof of theorem 3.5 in [2], involving theorem 3.2 in the place of theorem 3.1, implies a stronger result.

REFERENCES

- [1] S. G. Dani. On orbits of unipotent flows on homogeneous spaces. Ergod. Th. & Dynam. Sys. 4 (1984), 25-34.
- [2] S. G. Dani. On orbits of unipotent flows on homogeneous spaces, II. Ergod. Th. & Dynam. Sys. 6 (1986), 167-182.