CORRIGENDUM

W. A. Beyer, R. B. Roof, and Dorothy Williamson, *The lattice structure of multiplicative congruential pseudo-random vectors*, Math Comp. **25** (1971), 345–363.

We have recently checked the lists of Minkowski-reduced bases vectors given in the above paper. Errors in the lists were found. Neither the code (written in the MADCAP language) nor the computer (MANIAC II) with which the original calculations were done any longer exist. We are not able to identify all the sources of the errors. In those lists, 100 vectors are given. Of these, 14 vectors are in error. Because there are, in the printed literature, few examples given of Minkowski-reduced bases, it was thought useful to give these corrections. The following is the set of the vectors that are in error and the corrected values of the vectors.

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In Table 1, replace the first vector in dimension 6 with
  -366950636\ 328620548\ 124696628\ -35239772\ -190790060\ 505360452.
Replace the third and fourth vectors with the vectors
  314416152\ 397005112\ -376884264\ -321772040\ 313172376\ 323442872
  -61810940 -322268876 -144847452 -513669292 -585564860 456122996.
In Table 2, replace the second vector in dimension 5 with
  -687193078484448422240211120010556000.
Replace the second vector in dimension 6 with
  6871947000 -3368 -16840 -84200 -421000 -2105000.
In Table 3, replace the fourth vector in dimension 6 with
  1633136285434140921351300220 -72350100 -146268132346071180.
In Table 4, replace the fourth vector in dimension 4 with
  -98115976\ 39678936\ 23971000\ 103528216.
Replace the fifth vector in dimension 5 with
  -5734448 \ -195087344\ 82730320\ 255762320\ 312176336
In Table 5, replace all five vectors in dimension 5 with
  -34338777596\ 16756244\ 137350932068\ -34316681228\ 181140684740
  -240373551820 -17167293948171798635728585334435652421909492
  -17135875544\ 274716521160\ 51510263272\ 17162974600\ -52585559128
  85851134456\ 34307359192\ -257553413832\ -103007850984\ 69575616120.
  120202485496\ 137355123416\ 39798328\ 326226894616\ 69576416120.
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-343354289536274655779968-446385287552154495174784

Replace the third vector in dimension 6 with

-240447493504 -623267277696.

These corrections entail corrections in the "figures of merit" and in the cosines of lattice angles. It was not thought useful to give these corrections.

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