A propos my editorial note to [2], there is only one further case in this extension (if I did it correctly). For $n=2539004$, multiplication $(\bmod n)$ is isomorphic to multiplication $(\bmod n+1)$. That is a much more stringent requirement; I do not know if anyone has made a heuristic estimate of whether there are infinitely many such $n$.
D. S.

1. M. LAL \& P. GILLARD, 'On the equation $\phi(n)=\phi(n+k)$," Math. Comp., v. 26, 1972, pp. 579-583.
2. KATHRYN MILLER, UMT 25, Math. Comp., v. 27, 1973, pp. 447-448.

3 [9].-B. D. Beach, H. C. Williams \& C. R. Zarnke, Some Computer Results on Units of Quadratic and Cubic Fields, Scientific Report 31, University of Manitoba, Winnipeg, July 1971.

The table in the appendix lists the class number $H$ and fundamental unit $\epsilon_{0}$ $\left(0<\epsilon_{0}<1\right)$ of the pure cubic fields $Q(\rho)$ where $\rho=D^{1 / 3}$. For each cube-free $D$ between 2 and 998 there is listed $H, U, V, W, T$, and $J$ where

$$
\begin{equation*}
\epsilon_{0}=\left(U+V \rho+W \rho^{2}\right) / T \tag{1}
\end{equation*}
$$

and $J$ is the length of the period of Voronoi's algorithm. The largest $U$ here is a 330 -decimal number for $D=951$ where $H=1$. Here, $J=1352$, and for large $U$ one finds that $J / \log _{10} U \approx 4.1$. Presumably, the mean value of this ratio is analogous to Lévy's constant but its identity is not known to me. The largest $H$ equals 162 here for $D=813$. Some fields are given twice: e.g., $Q\left((12)^{1 / 3}\right)=Q\left((18)^{1 / 3}\right)$ and so its $\epsilon_{0}$ is given in two forms. Happily, the $H$ then agree-in all cases that I checked.

A direct comparison with Wada's units to $D=249$, see [1], is not possible since Wada gives the reciprocal $\epsilon=1 / \epsilon_{0}=\left(A+B \rho+C \rho^{2}\right) / E$ instead. It is of some interest to argue which unit is preferable. Usually, $U, V, W$ have only one-half the decimals of $A, B, C$; for example, for $D=239, U$ has 94 decimals while $A$ has 188. But for applications, $\epsilon$ is usually preferable. Thus, in evaluating the regulator $R=\left|\log \epsilon_{0}\right|$, the formula (1) can suffer catastrophic loss of significance since $\epsilon_{0}$ may be exceedingly small. Of course, one can obtain $\epsilon$ from $\epsilon_{0}$ by

$$
\epsilon=\left(U^{2}-D V W\right)+\left(W^{2} D-U V\right) \rho+\left(V^{2}-U W\right) \rho^{2}
$$

if $T=1$. So, for such large $U, V, W, R=\log \left(3 U^{2}-3 D V W\right)$ will be very accurate.
The text describes Voronoi's algorithm and refers to earlier, less extensive tables by Markov, Cassels, Selmer, etc.
D. S.

1. H. WADA, RMT 15, Math. Comp., v. 26, 1972, pp. 302-303.
