CORRECTION TO

# "SHIFT WITH ORBIT BASIS AND REALIZATION OF ONE DIMENSIONAL MAPS"

Yoichiro TAKAHASHI

The condition (e) of Definition 6 in p. 603 in [1] was too simplified and it should be read as

(e)   If $(b_n)_{n \geq 0}$, $(b'_n)_{n \geq 0} \in M(V)$, $0 \leq i < |b_0|$, $0 \leq j < |b'_0|$ and

$$(21) \qquad (\sigma^i b_0) b_1 b_2 \cdots = (\sigma^j b'_0) b'_1 b'_2 \cdots ,$$

then, $\sigma^{i*} b_0 = b_0^* \cdots$ and $\sigma^{j*} b'_0 = b_0^* \cdots$ for some $i^* \leq i$, $j^* \leq j$ and $b_0^* \in B$ when $ij \neq 0$, $b_0 = b'_0$ when $i = j = 0$, and $|\sigma^i b_0| \geq |b'_0|$ when $i \neq 0 = j$.

There are some points where we need additional conditions which are automatically satisfied by shifts with free orbit basis:

In p. 611, especially in the formula (2) and Remark 1, the dynamical systems considered must be transitive in the sense that for any open sets $U$ and $V$, $V \cap f^{-n} U \neq \phi$ for some positive $n$.

Thirdly the following condition should be added in Example 2 in p. 604:

(d)   $(a_i, a_{i+1}, \cdots, a_{p-1}, a_0, \cdots, a_{i-1}) \neq u \qquad (i = 1, \cdots, p - 1).$

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## Reference

[1]   Y. Takahashi: *Shift with orbit basis and realization of one dimensional maps*, Osaka J. Math. **20** (1983), 599–629.

Department of Mathemtics
College of Arts ans Sciences
University of Tokyo
Komaba, Meguro-ku
Tokyo 153, Japan