

CORRECTION TO
"SHIFT WITH ORBIT BASIS AND REALIZATION
OF ONE DIMENSIONAL MAPS"

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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

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

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 , $V \cap f^{-n}U \neq \emptyset$ for some positive n .

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

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

Reference

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

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