OUKA
Osaka University Knowledge Archive

| | |
|---|---|
| Title | Correction to : "Shift with orbit basis and realization of one-dimensional maps" |
| Author(s) | Takahashi, Yōichirō |
| Citation | Osaka Journal of Mathematics. 1985, 22(3), p. 637 |
| Version Type | VoR |
| URL | https://doi.org/10.18910/5704 |
| rights | |
| Note | |

*Osaka University Knowledge Archive : OUKA*

https://ir.library.osaka-u.ac.jp/

Osaka University

Takahashi, Y.
Osaka J. Math.
**22** (1985), 637

*CORRECTION TO*

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

YOICHIRO TAKAHASHI

(Received September 18, 1984)

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

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

$$(\sigma^i b_0)b_1b_2\cdots = (\sigma^j b'_0)b'_1b'_2\cdots , \tag{21}$$

then, $\sigma^{i^*}b_0=b_0^*\cdots$ and $\sigma^{j^*}b'_0=b_0^*\cdots$ for some $i^*\leqq i$, $j^*\leqq j$ and $b_0^*\in B$ when $ij\neq 0$, $b_0=b'_0$ when $i=j=0$, and $|\sigma^i b_0|\geqq|b'_0|$ 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) $(a_i, a_{i+1}, \cdots, a_{p-1}, a_0, \cdots, a_{i-1})\neq u$ $\quad(i=1, \cdots, p-1)$.

---

**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