## Erratum to "Topology of Hopf surfaces"

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The author was kindly informed by M. Ue that the statement of Theorem 9 was incomplete and a certain subcase was missing. As was pointed out by Ue, this error had its origin in Lemma 4 of the paper which claimed that  $N_{SL(2,C)}(B_n)=B_{2n}$  for  $n\geq 2$ . In fact, this equality holds for  $n\geq 3$ , but for n=2, we have  $N_{SL(2,C)}(B_2)=D$ . By this mistake, we must correct Lemmas 4, 5, 6, 7, Proposition 8, and Theorem 9, though they hold true under the condition that  $K\neq B_2$ . The other results are OK without change. We correct these errors as follows. In Lemma 4,  $N_{SL(2,C)}(B_n)=B_{2n}$   $(n\geq 3)$ ,  $N_{SL(2,C)}(B_2)=D$ . In Lemma 5,  $N_{GL(2,C)}(B_n)=C^*I\cdot B_{2n}$   $(n\geq 3)$ ,  $N_{GL(2,C)}(B_2)=C^*I\cdot D$ . In Lemma 6, Case 2, for  $K=B_n$   $(n\geq 3)$ ,  $u=\begin{pmatrix} \rho_{2n} & 0 \\ 0 & \rho_{2n}^{-1} \end{pmatrix}$ , and for  $K=B_2$ ,  $u=u_1:=\begin{pmatrix} \rho_4 & 0 \\ 0 & \rho_4^{-1} \end{pmatrix}$  or  $u=u_2:=\frac{1}{\sqrt{2}}\begin{pmatrix} \rho_4^3 & \rho_4^3 \\ \rho_4 & -\rho_4 \end{pmatrix}$ . In case  $K=B_2$ , Lemma 7 should be replaced by

LEMMA 7'. If  $(K=B_2 \text{ and } if)$  G is indecomposable, then G can be expressed as either

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(a) G = G_0 \cup gG_0,

where G_0 = \{c^2I\} \times H, c \in \mathbb{C}^*, |c| < 1, g = cu_1, or

(b) G = G_0 \cup gG_0 \cup g^2G_0,

where G_0 = \{c^3I\} \times H, c \in \mathbb{C}^*, |c| < 1, g = cu_2.
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In case  $K=B_2$ , Proposition 8 should be replaced also by

**PROPOSITION** 8'. If  $K=B_2$ , then G is conjugate to one of the following three groups;

- (a)  $G = \{c^2I\} \times H \cup (cu_1)(\{c^2I\} \times H),$
- (b)  $G = \{c^3I\} \times H \cup (cu_2)(\{c^3I\} \times H) \cup (cu_2)^2(\{c^3I\} \times H),$
- (c)  $G = \{cI\} \times H$ , where  $c \in \mathbb{C}^*$ , |c| < 1.

The statement (2) in Theorem 9 should read as follows;

(2)'  $(S^3/H)$ -bundle over  $S^1$  whose transition function  $u: S^3/H \rightarrow S^3/H$  is of order 2 or 3 as an element of the diffeomorphism group of  $S^3/H$ .