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CORRIGENDUM TO "ON THE STRUCTURE OF TAKAHASHI MANIFOLDS"

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As communicated us by M. Mulazzani (Univ. Bologna, Italy) the last statement of Corollary 8 in [1] is not correct in general. The correct formulation of this corollary is the following

Corollary 8. *If* $p_i/q_i = p/q$ *and* $r_i/s_i = r/s$, *for every* $i = 1, 2, \dots, n$, *then the Takahashi manifold* $M(p/q, r/s) = M(p/q, \dots, p/q; r/s, \dots, r/s)$ *is the two-fold covering of the* 3*-sphere branched over the link* $(\sigma_1^{p/q}\sigma_2^{r/s})^n$.

As a consequence, the statements of Corollaries 9 and 11 must be changed in the same way. More precisely, we have

Corollary 9. *If* $p_i/q_i = k/l$ *and* $r_i/s_i = -k/l$, *for every* $i = 1, 2, \dots, n$, *then the Takahashi manifold* $M(k/l, -k/l) = M(k/l, \dots, k/l; -k/l, \dots, -k/l)$ *is the Fractional Fibonacci manifold defined in* [14], *and so it is the two-fold covering of the* 3*-sphere branched over the link* $(\sigma_1^{k/l}\sigma_2^{-k/l})^n$.

Corollary 11. *If* $a_i/b_i = k/l$, *for any* $i = 1, 2, \dots, n$, *then the Takahashi manifold* $M'(k/l, \dots, k/l)$ *is the* 2*-fold covering of* S^3 *branched over the closed* 3*-string braid* $(\sigma_1^{k/l+2}\sigma_2)^n$.

Finally, we also clarify, as C. Petronio (Univ. Pisa, Italy) suggested us, the statement of Theorem 3 in [1] as follows

Theorem 3. *For any integer* $n \geq 2$ *there exists* $k > 0$ *such that the Takahashi manifold* $M(p_1/q_1, \dots, p_n/q_n; r_1/s_1, \dots, r_n/s_n)$ *is hyperbolic whenever* $|p_i| + |q_i| \geq k$ *and* $|r_i| + |s_i| \geq k$ *for all* $i = 1, \dots, n$.

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Reference

[1] B. Ruini – F. Spaggiari, On the strucure of Takahashi manifolds, Tsukuba J. Math. **22** (1998), 723–739