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This corrigendum corrects some unfortunate typographical errors that had been forgotten in [1].

(1) In section 2, “δ” stands for Kronecker’s symbol.
(2) Theorem 1.2 in [1] should be read as follows:

Theorem 1.2. Let $\mathcal{D}^4$ be a distribution on a Riemannian manifold $M^{4+p}$. Let $L$ be a compact umbilic submanifold of $M$, with dimension 4, and suppose the sectional curvatures of $M$ are positive along $L$. If $\mathcal{D}^4$ is tangent to $L$, then $\epsilon(\mathcal{D}) \neq 0$.

(3) In section 4, “Proof of Theorem 1.2” shows the proof of Corollary 4.2. The corrected one is very similar to the demonstration of Theorem 1.1, except for one difference: it relies on Milnor’s proof of Hopf’s conjecture in dimension 4.
(4) The foliation considered in Corollary 4.5 must have at least one compact leaf.

Finally, we present a revised version of Theorem 1.3:

Theorem 1.3. Let $\mathcal{F}$ be a $SL$-foliation of dimension 4 on a closed Riemannian manifold $M^{4+p}$. If the sectional curvatures of the leaves always have the same sign, then $\chi(\mathcal{F}, v) = \int_M \epsilon(\mathcal{F}) \wedge v \geq 0$.

We thank our readers for their understanding.

References


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