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Corrigendum to “The Euler class of an umbilic foliation” [C. R. Acad. Sci. Paris, Ser. I 354 (6) (2016) 614–618]

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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 $\chi(\mathcal{F}, \nu) = \int_M \epsilon(\mathcal{F}) \wedge \nu \geq 0$.*

We thank our readers for their understanding.

References

[1] I. Gonçalves, F. Brito, The Euler class of an umbilic foliation, C. R. Acad. Sci. Paris, Ser. I 354 (6) (2016) 614–618.

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