



# Correction to: Besse conjecture with positive isotropic curvature

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It has been observed that the proof of Lemma 5.5 in the paper [3] is not complete. It was pointed out in [1] by Prof. S. Borghini and L. Mazzieri, and in [2] by Prof. G. Catino, D. Dameno and P. Mastrolia. In the proof, a particular frame of vector fields is constructed in order to establish formulas for  $|\nabla\omega|^2$  and  $|\delta\omega|^2$ . The derived formula for  $\delta\omega$  might not be correct as they pointed out because the Lie bracket of these frames does not necessarily vanish.

Consequently, Theorem 1.1 in [3] is still valid. But it remains unclear whether or not Theorem 1.2 is true.

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## References

1. Borghini, S., Mazzieri, L.: Counterexamples to a divergence lower bound for the covariant derivative of skew-symmetric 2-tensor fields, Preprint
2. Catino, G., Dameno, D., Mastrolia, P.: Private Communication
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