Erratum

Erratum to: Some Applications of the Hodge-de Rham Decomposition to Ricci solitons

C. Aquino, A. Barros and E. Ribeiro Jr.

Abstract. The aim of this note is to clarify a minor mistake in the article: Some Applications of the Hodge-de Rham Decomposition to Ricci solitons.

Keywords. Hodge-de Rham, Ricci soliton, surface.

Erratum to: Results Math (2011) 60:245–254 DOI 10.1007/s00025-011-0166-1

In the original article, the authors proved some applications of Hodge-de Rham Decomposition to compact Ricci solitons.

With regard to Corollary 3 in the original article, the following result is true.

Proposition 1. *Let (M^2, g, X) be a compact Ricci soliton. Then the soliton is trivial.*

Proof. For a proof, see [1, 2]. □

Therefore, in the proof of Corollary 3 in the original article, we cannot apply the result due to Ishihara and Tashiro [3] since this result is only true for dimensions $n \geq 3$.

A. Barros and E. Ribeiro Jr. are partially supported by CNPq-BR.

The online version of the original article can be found under doi:[10.1007/s00025-011-0166-1](https://doi.org/10.1007/s00025-011-0166-1).

References

- [1] Chen, X., Lu, P., Tian, G.: A note on uniformization of Riemannian surfaces by Ricci flow. *Proc. Am. Math. Soc.* **134**, 3391–3393 (2006)
- [2] Hamilton, R.: *The Ricci Flow on Surfaces. Mathematics and General Relativity* (Santa Cruz, CA, 1986), pp. 237–262, *Contemp. Math.*, vol. 71. American Mathematical Society, Providence (1988)
- [3] Ishihara, S., Tashiro, Y.: On Riemannian manifolds admitting a concircular transformation. *Math. J. Okayama Univ.* **9**, 19–47 (1959)

C. Aquino, A. Barros and E. Ribeiro Jr.

Departamento de Matemática, UFC

60455-760 Fortaleza, CE, Brazil

e-mail: cicero@ufpi.br;

abbarros@mat.ufc.br;

ernani@mat.ufc.br

URL: <http://www.mat.ufc.br/pgmat>