Erratum to the paper
"A finiteness theorem for Riemannian submersions"
(Ann. Polon. Math. 57 (1992), 283–290)

by Paweł G. Walczak (Łódź)

In [1], due to the author's lack of attention, the condition

(e) the norm of the integrability tensor A of f,

$$A(X, Y) = h\nabla_{hX} vY + v\nabla_{hX} hY ,$$

is bounded by τ,

is missing in the list of conditions defining the class $\mathcal{R}(D, V, \kappa, \tau, p, n)$. Without it the Theorem is not true, nor is the remark of the introduction saying that the conditions on f imply the geometry (in particular, the curvature) bounds for M. In the proof of the Theorem, condition (e) is involved when applying Lemma 2 to show that the map Ψ has maximal rank.

The author is grateful to Pierre Molino for bringing the lack of some estimates to his attention.

Reference

[1]   P. G. W a l c z a k, *A finiteness theorem for Riemannian submersions*, Ann. Polon. Math. 57 (1992), 283–290.

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