Corrigendum


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As one can check from the proof of Theorem 6.2, the following definition of the Ricci curvature tensor, was used

\[ \text{Ricci}(u) = \sum_i \Omega(e_i, u, e_i) \]

where \( \Omega \) denotes the Riemannian curvature and \( e_i \) an orthonormal basis of the tangent space.

This corresponds to a change of sign is the standard definition of the Ricci, which explains the difference with the signs of the curvatures appearing in Arnold’s approach to Hydrodynamics (cf. [1, p. 200]).

Although it was mentioned in the introduction that a different sign convention was used, the choice was clearly bad and may lead to misunderstandings. One misunderstanding is already in the paper, in the comments regarding the non-validity of Myers type theorems in an infinite dimensional setting (cf. introduction, end of paragraph 3).

We apologize for the mistake and thank Christian Loeschcke for pointing it out to us.

Reference