

Erratum

Erratum to: A Trotter product formula for gradient flows in metric spaces

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In the original publication, the statement of Theorem 1.1 contains a typo which is corrected here. The factor $\frac{1}{2}$ should be removed from the left-hand side of equations (1.4), (1.5), and in the displayed formula between these equations. For example, (1.4) should be replaced by

$$\frac{d}{dt}d^2(u(t), y) \leq \varphi(y) - \varphi(u(t)).$$

The rescaled function $v : [0, T_*/2] \rightarrow X$ defined by $v(t) = u(2t)$ satisfies the equations which have been stated for u .

If the factor $\frac{1}{2}$ is omitted, the theorem is correct. The proof is correct as stated and shows convergence to the correct equation, as can be seen, for example, in the last displayed formula of the proof on page 418.

Further errors that need to be amended are given below:

- On line 8 of page 413, $[t_{j-1}, t_j)$ should be replaced by $[t_{\mathbf{h}}^{j-1}, t_{\mathbf{h}}^j)$.
- The second line of the proof to Lemma 3.1 should be: “For the convenience of the reader, we provide a simple direct proof of (1) in the case that $\mu \ll \mathcal{L}^d$.”

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