

KNOWN MISPRINTS “GEOMETRIC VARIATIONAL PROBLEMS IN MATHEMATICAL PHYSICS”

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(1) [Man17, Lemma A.1.7(3)] should state

$$H_{\tilde{g}} = u^{-\frac{2}{n-2}} \left(H_g + \frac{2(n-1)}{n-2} u^{-1} \nabla_{\nu}^g u \right).$$

In the proof, one ought to instead have

$$\left[\frac{d}{dt} \sigma_{\tilde{g}}(\Sigma_t) \right]_{t=0} = \int_{\Sigma} \left[H_g \zeta u^2 + \frac{2(n-1)}{n-2} \zeta u \nabla_{\nu}^g u \right] d\sigma_g.$$

REFERENCES

- [Man17] C. Mantoulidis. *Geometric variational problems in mathematical physics*.
PhD thesis, Stanford University, June 2017.

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