

ERRATA TO “METRIC CHARACTER OF HAMILTON–JACOBI EQUATIONS”

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The formula defining the distance S must be corrected as follows:

$$\text{(new 3.2)} \quad \mathfrak{S}_x^T(\eta, \gamma) = \int_0^T -\gamma[\eta]\eta - |\gamma[\eta]|d_E^\#(\eta, Z(\xi(\eta, \gamma, x, \cdot)))dt,$$

$$\text{(new 3.3)} \quad S(y, x) = \inf_{\gamma \in \Gamma_{x,y}} \sup_{\eta \in B} \mathfrak{S}_x(\eta, \gamma).$$

The dynamical programming principle stated in Proposition 3.4 then becomes:

For any $x, y \in \mathbb{R}^N$ and $T > 0$

$$\text{(new 3.7)} \quad S(y, x) = \inf_{\gamma \in \Gamma^T} \sup_{\eta \in B^T} \{ \mathfrak{S}_x^T(\eta, \gamma) + S(y, \xi(\eta, \gamma, x, T)) \}.$$

With these changes Theorems 4.1 and 4.2 hold true, while Lemma 4.1 must be erased. The proofs in Sections 3 and 4 require minor changes that can be easily detected. Sections 1, 2 and 5 stay unchanged.

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REFERENCES

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