ERRATA TO “METRIC CHARACTER OF HAMILTON–JACOBI EQUATIONS”

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

(new 3.2) $\gamma^T_x(\eta, \gamma) = \int_0^T -\gamma[\eta]\eta - |\gamma[\eta]|d E(\eta, Z(\eta, \gamma, x, \cdot))dt,$

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

The dynamical programming principle stated in Proposition 3.4 then becomes:

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

(new 3.7) $S(y, x) = \inf_{\gamma \in \Gamma_T} \sup_{\eta \in B_T} \left\{ \gamma^T_x(\eta, \gamma) + S(y, \xi(\eta, \gamma, x, T)) \right\}.$

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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