Erratum

Erratum to "Quantum diffusion on manifolds" [J. Geom. Phys. 47 (2003) 484–496]☆

Timothy R. Field

QinetiQ, Malvern Technology Park, St. Andrews Road, Malvern WR14 3PS, UK

(1) Eq. (2.1): replace summation term by $w^{\mathbf{i}}$.
In Eq. (2.1) add the following equation:

$$w^{\mathbf{i}} = \sum_I \sigma_I^{\mathbf{i}}(X_t^{\mathbf{i}}) \, dW_t^I.$$

(2) In the remainder of the sentence following Eq. (2.1), following "... satisfying" the left hand side of the in-text equation has a factor missing; instead the left hand side should read $dW^I \, dW^J$.

(3) Interchange the 'x', 't' arguments on the left hand sides of Eqs. (2.2) and (2.3).

(4) Eq. (2.9): in the summation on the left hand side, some of the indices should be capitalised; thus the summation term should read

$$\sum_I \sigma_I^{\mathbf{i}} \, dW^I.$$

(5) Paragraph above Eq. (4.2), the in-text equation immediately following "Adapting the argument of Nelson ..." has a factor missing in the third term of the right hand side; instead the third term should read (the sign is correct)

$$\tfrac{1}{2} \delta^{jl} \partial_k \Gamma_{jl}^i \mathcal{W}^k.$$

(6) Line above Eq. (5.3), the quantity in brackets on the right hand side of the in-text equation should be a column vector with components ψ, $-\tilde{\psi}$.