ERRATA CORRIGE June 5 2019

V. Moretti, **Spectral Theory and Quantum Mechanics:** Mathematical Structure of Quantum Theories, Symmetries and introduction to the Algebraic Formulation, Springer 2018

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ERRATA	CORRIGE
p52, 8th from the top, right-most term in the formula $\leq \|\|b_0\|\|\,(1+\|\|b_0\|\|+\|\|a_0\|\|)$	*Correct to* $\leq \|\|a-a_0\|\|(1+\|\|b_0\|\|)+\|\|a_0\|\|\,\|\|b-b_0\|\|$
P53 displayed formula on line 7 from the top ….. $(-1)^n((c-b)b^{-1})^n$ ….	*Correct to* ….$(-1)^n(b^{-1}(c-b))^n$ ….
P110 displayed formula 9th line from the top $p(x,y)^2\leq(p(x)+p(y))^2$	*Correct to* $p(x+y)^2\leq(p(x)+p(y))^2$
p314, 3rd line from the top "...for the restrictions of ≥ and ¬."	*Complete the statement* "...for the restrictions of ≥ and ¬. More precisely, sup{a,b} and inf{a,b} computed in the subset must coincide with, respectively, sup{a,b} and inf{a,b} computed in X and the top and the bottom of the subset must coincide with those of X."
*p724, text of **Definition 12.57*** "An embedded (analytic) submanifold G' ⊂ G in a Lie group that is also a subgroup inherits a Lie group structure from G. In such case G' is a **Lie subgroup** of G." … A Lie group G is said to be **simple** if it does..."	*Correct and complete to* "An immersed (analytic) submanifold G' ⊂ G in a Lie group that is also a subgroup and inherits a Lie group structure from G is called **Lie subgroup** of G. G' is an **embedded Lie subgrup** if it is also embedded as a submanifold." … A (connected) non-Abelian Lie group G is said to be **simple** if it does..."
*p725, text of **Theorem 12.59*** "...then G' is a Lie subgroup of G (including the case of a discrete Lie group)..."	*Insert the missed text* "...then G' is an embedded Lie subgroup of G (including the case of a discrete Lie group)..."
*p725, Immediately after **Proposition 12.60*** "Summing up, closure completely characterises Lie subgroups."	*Insert the missed text* "Summing up, closure completely characterises embedded Lie subgroups."
*p730, text of **Theorem 12.66**, Hypotheses* "Let G be a connected non-compact Lie group and..."	*Insert the missed text* "Let G be a connected non-compact simple Lie group and..."
*p731, text of **Theorem 12.66**, Proof, 6th line from the top* "By definition of Lie subgroup, U_0 is an embedded submanifold of U(n)."	*Complete the statement* "Since G is a simple Lie group its Lie algebra is simple and hence it is semisimple. As a consequence U_0 is semisimple as well and Theorem 14.5.9 of [HiNe13] implies that it is closed in U(n). Finally Cartan's theorem proves that U0 is a Lie subgroup of U(n). By definition of Lie subgroup, U_0 is an embedded submanifold of U(n)."
*p731, text of **Remarks 12.67** (1)* "The theorem applies to SO(1, 3)↑ since this is non-compact..."	*Insert the missed text* "The theorem applies to SO(1, 3)↑ since this is a simple Lie group, non-compact..."