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CORRIGENDUM TO "A REMARK ON ERGODICITY OF QUANTUM MARKOVIAN SEMIGROUPS" [COMMUN. KOREAN MATH. SOC. 24 (2009), NO. 1, 99–109]

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Proposition 6.1 in [6] was used for the proof of (b) in Theorem 2.2 in this paper. But Proposition 6.1 in [6] must be corrected, indeed $\mathcal{N}$ is contained in the commutant of $\{L_l, L_l^* | l \geq 1\}$, but they are not equal, see Theorem 2.1 in [1]. Therefore this paper should be corrected as follows:

Page 103, line 30. (b) $\mathcal{N}$ is contained in the commutant of $\{\sigma_{\pm i/4}(x_k), \sigma_{\pm i/4}(x_k^*) | k = 1, \ldots, n\}$.

Page 107, line 20. and if $A \in \mathcal{N}$ then $\Gamma(A^*, A) = 0 = \Gamma(A, A^*)$.

Page 108, line 8. which means that if $A \in \mathcal{N}$ then $Ay_k = y_k A$, $Az_k^* = z_k^* A$, $Ay_k^* = y_k^* A$, $Az_k = z_k A$.

With this corrections, by using (b) in Theorem 2.2, Corollary 2.3 still holds.

The author thanks Professor Franco Fagnola for informing the mistake in his paper [6] and pointing out this error.

References

[1] F. Fagnola and R. Rebolledo, Algebraic conditions for convergence of a quantum markov semigroup to a steady state, *Infin. Dimen. Anal. Quantum Probab. Rel. Top.* **11** (2008), no. 3, 467–474.

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