Commun. Math. Phys. 69, 99 (1979)

Communications in Mathematical Physics

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Addendum

Fuller, W., Lenard, A.: Generalized Quantum Spins, Coherent States, and Lieb Inequalities. Commun. Math. Phys. 67, 69–84 (1979)

We regret an oversight to which Professor Barry Simon drew our attention. The gap occurs in the proof of Proposition 5 which requires establishing that the L_{jk} are proportional to the T_{jk} . The argument, as it stands is incomplete; we have failed to show that the constant k defined by (4.11) does not vanish.

This can be done as follows:

Using (2.5), (2.6), and (3.23) one obtains that k is a positive multiple of $\int X(Y+X)^l dR$ where the integral is over the full orthogonal group and where $X = \det(r)$, $Y = \frac{1}{2}$ trace $(r^t r)$ with r the upper left 2 by 2 submatrix of R. By a suitable group translation in the integration variable one can change the sign of X without affecting Y. If the two expressions are then added, the odd powers of X cancel and K appears as a manifestly positive number.