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ERRATA

A Relative Frequency Criterion for the Repeatability of Quantum Measurements.

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PACS 03.65.Bz – Quantum mechanics; quantum measurements.
PACS 99.10 – Errata.

On p. 1104, 1st line from below, the expression

$$P(X_i = 1,\ X_j = 1) = p$$

should read

$$P(X_i = 1,\ X_i = 1) = p\,.$$

On p. 1105, 11th and 12th line from below, the expression

$$[p - \eta\,\Delta p,\ p - (\Delta p)'' \cup (p + (\Delta p)'',\ p + (\Delta p)'']$$

should read

$$[p - \eta\,\Delta p,\ p - (\Delta p)'') \cup (p + (\Delta p)'',\ p + (\Delta p)'']\,.$$

On p. 1107, 6th line from above, the expression

$$[p - (pq)^{1/2} N^k,\ p - (pq)^{1/2} N^n) \cup (p + pq)^{1/2} N^n,\ p + (pq)^{1/2} N^k]\,,$$

should read

$$[p - (pq)^{1/2} N^k,\ p - (pq)^{1/2} N^n) \cup (p + (pq)^{1/2} N^n,\ p + (pq)^{1/2} N^k]\,.$$

On p. 1110, 11th line from below, «possibiities» should read «possibilities».

On p. 1110, 4th line from below, «and given» should read «and is given».

Due to a technical incovenience, on p. 1109 the last two lines are doubled; and on p. 1110, 1st line from below:

Thus we reach the conclusion that quantum YES-NO measurements of the dis-

should read:

Thus we reach the conclusion that quantum YES-NO measurements of the discrete spin observables considered is repeatable with respect to individual measured systems, if and only if $G(p)$ is jump discontinuous in the sense of point 3 above.

In general, for spin s and its projection m we have $p = p^s_{mm} = (\delta^s_{mm})^2$, where δ^s_{mm} is an element of the rotation matrix. It is not difficult to show that $G(p^s_{mm})$ has a finite

We sincerely apologize to the author.

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