

Erratum

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Clarifications to the Printed Copy, Journal of Mathematical Chemistry Vol. 31, pp. 281–312 : Quasi-particle dual mappings on $\{\mathbb{H}_v\}$ carrier spaces for dynamical structures of \mathcal{S}_{2n} -invariant-based integer rank tensorial sets: A democratic recoupling \mathcal{S}_{2n} -compatible overview of v-auxiliary labelling in superboson algebras of uniform multispin NMR ensembles

In the printed form of the article, the equation immediately under table 1 on p. 291 was given without its continuation line and so it appears in the printed original incorrectly as being truncated at the third term. The intended sum of squares of $[\lambda]$ characters should have included three further higher-partite terms, so that the full equation should read:

$$\mathbf{N}_f^{(20)} = \left\{ \chi_{1^5}^{[0]} \right\}^2 + \left\{ \chi_{1^5}^{[1]} \right\}^2 + \left\{ \chi_{1^5}^{[2]} \right\}^2 + \left\{ \chi_{1^5}^{[11]} \right\}^2 + \left\{ \chi_{1^5}^{[21]} \right\}^2 + \left\{ \chi_{1^5}^{[111]} \right\}^2$$

clearly corresponding to $/\mathcal{S}_5/ - 1 = 119$, as utilised in the calculation and reported in penultimate entry of column 2 in table 1. In the final row of table 1, the ultimate row of column 2 now should read 694, i.e., on the basis of the numerical values associated with the expression: $/\mathcal{S}_6/ - (\chi_{1^6}^{[21^4]})^2 - 1$. As a direct consequence, the term $\sum^{(f)}$ in the final column should take value 207,312 (in place of 207,292, originally reported for the fundamental contribution to the cardinality of the 24-fold uniform spin system scalar invariants). Also, instead of the space insertions sought (at the in-proof stage) prior to a couple of composite symbols, spurious y^* signs appear both in the LHS of equation (25) and in the qualifying second part of equation (27); *both* of these additions should be deleted.

Finally in context of the printed contents of table 4, two small clarifications are necessary. The single $[6] \dots [2]$ -based chain entry should be placed within starred brackets with a footnote added below the table to indicate that this chain entry is associated with a *constant-of-motion irrep*, rather than being a full member of the scalar invariant set. As a consequence partly of this revision, a further

row should be inserted in the table under the penultimate [42] .. [2]-based entry. The latter should read:

$$[42] \quad [32] \supset [31] \supset [21] \supset [2]$$

The substitution of one subduction chain in table 4 by another does not effect the conceptual result originally reported, i.e., that the 6-fold uniform spin system is governed by 15 invariants. Similarly, the cardinality of $N'_f(20)$ originally reported in the article was derived correctly, using all six of the squared character terms indicated above. The citation associated with ref. [25] in the bibliography should be amended to read:

[25] F.P. Temme, *J. Magn. Reson.* 167 (2004) 119–132.