Commun. math. Phys. 43, 198 (1975)

Corrigendum

Haag, R., Kadison, R. V., Kastler, D.: Asymptotic Orbits in a Free Fermi Gas. Commun. math. Phys. **33**, 1—22 (1973)

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In a recent paper entitled "A characterization of clustering states" (Commun. math. Phys. **41**, 79 (1975)) D. W. Robinson points out that the proof of Proposition 4.5 in our paper is incomplete and notes that $\mathfrak{A}(M_{a_0})^-$ and $\mathfrak{A}(M_a)' \wedge \mathfrak{A}^-$ do not generate $\mathfrak{A}_a^-$ as is claimed in the proof given.

The incorrect claim alluded to is made on page 15, lines -3 and -2, and refers to the "only if" portion of the statement, i.e. that if the "clustering property" holds ϱ is primary. The two paragraphs preceding Lemma 4.4 and Proposition 4.5 establish that the center $\mathscr{C}$ of $\mathfrak{A}^-$ is at most 2-dimensional ("primary" is, of course 1-dimensional). As in the first of these paragraphs, if C is a central element in each of $\mathfrak{A}(\mathscr{H} \ominus M_a)^-$ then C is a scalar (from clustering and the fact that x is separating for the center $\mathscr{C}$). As in the paragraph preceding Proposition 4.5, each even central C is in each $\mathfrak{A}(\mathscr{H} \ominus M_a)^-$. Since the square of an odd element is even and each element of $\mathscr{C}$ is the sum of an even and an odd element, $\mathscr{C}$ has dimension at most 2. (Represent $\mathscr{C}$ as the algebra of all continuous functions on a compact Hausdorff space for that.)

The incorrect claim is not alluded to nor used at any other point in our paper.